



REPORT OF THE  
**Hydro-Electric Power**  
**Commission**  
OF ONTARIO  
**1932**


MR. WILLS MACLACHLAN

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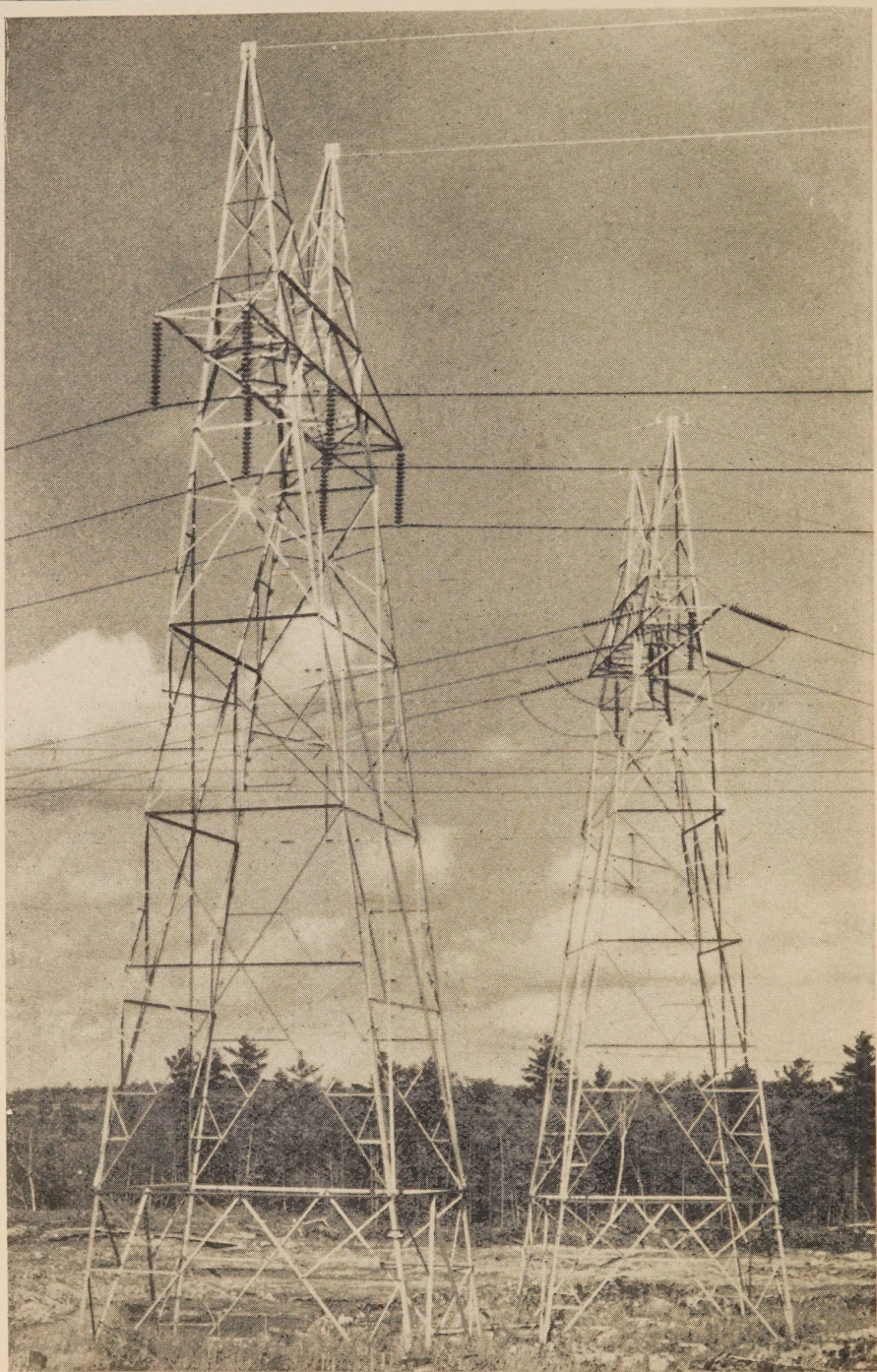






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#### HYDRO 220,000-VOLT TRANSMISSION LINES

Semi-anchor towers at approaches to Chats Falls generating Station. Dead-ending and double suspension of 795,000 circular mil steel-reinforced aluminum conductors are shown. The two  $\frac{3}{8}$ " diameter steel ground wires are shown elevated, on these approach towers, 19 feet higher than on standard construction.



*Gov. Doc  
Ont.  
H* *Ontario Hydro-Electric  
Power Commission*  
(TWENTY-FIFTH) ANNUAL REPORT

OF THE

# HYDRO-ELECTRIC POWER COMMISSION

OF THE

PROVINCE OF ONTARIO

FOR THE YEAR ENDED OCTOBER 31st

1932

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ONTARIO

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1933



THE  
HYDRO-ELECTRIC POWER COMMISSION  
OF ONTARIO

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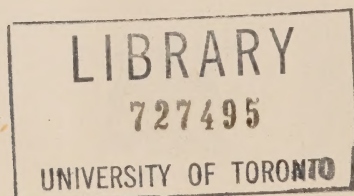
HON. J. R. COOKE, M.L.A.....Chairman

C. ALFRED MAGUIRE.....Commissioner

RT. HON. ARTHUR MEIGHEN, P.C., K.C.....Commissioner

W. W. POPE.....Secretary

F. A. GABY, B.A.Sc., D.Sc.....Chief Engineer





*To His Honour*

THE HONOURABLE HERBERT A. BRUCE, R.A.M.C., M.D., F.R.C.S.,  
*Lieutenant-Governor of Ontario.*

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present to your Honour the Twenty-fifth Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year ending October 31, 1932.

This Report covers all of the Commission's activities and also embodies the financial statements for the calendar year 1932, of the municipal electric utilities operating in conjunction with the various systems of the Commission and supplying electrical service to the citizens of the Province.

Dealing, as it does, with a multiplicity of activities relating to several electrical systems obtaining power from thirty-eight hydro-electrical developments operated by the Commission, supplemented by power purchased from other sources, and recording financial and other data relating to the individual local municipal electric utilities, the Annual Report presents a large amount of statistical information, much of which must, of necessity, be of a summary character.

The financial statements, the statistical data and the general information given, however, are so arranged and presented as to give a comprehensive survey of the Commission's operations. Not only does the Report record the progress made during the past year, but it gives, in addition, certain cumulative results for the various periods during which operation has been maintained in the respective municipalities.

At the end of the fiscal year the number of municipalities served in Ontario by the Commission was 747. This number included 27 cities, 95 towns, 267 villages and police villages and 358 townships. With the exception of 13 suburban sections of townships known as voted areas, the townships and 88 of the smaller villages are served as parts of 172 rural power districts.

### Constructional Activities

Constructional activities during 1932 were limited in scope, and consequently capital outlays by the Commission were much reduced. The chief work undertaken was the completion of the Chats Falls development on the Ottawa river, to the stage at present decided upon. Eight turbines are now installed. The present normal capacity of the development is 192,000 horsepower—half of which is owned by the Commission and half by the Ottawa Valley Power Company in the Province of Quebec.

At the Commission's transformer station at Chats Falls the third and fourth banks of transformers were installed providing for a total output of 188,400 kv-a. A 220,000-volt transmission line 100 miles long similar to the other 220,000-volt lines built by the Commission was constructed from Beaudet on the Ontario-Quebec boundary to Chats Falls, to transmit the power being received from the Beauharnois development on the St. Lawrence river. At Cumberland, on this transmission line, about 45 miles from Chats Falls, a switching station has been provided to form a junction point for a transmission line being constructed from the MacLaren power site on the Lièvre river.

It will thus be seen that Chats Falls has become an important power supply centre. Power is assembled here from the development at Chats Falls and from Beauharnois, and in the near future supplies of power will also come from the MacLaren development. In addition, of course, power supplies from the Gatineau River plants cross the Ottawa river at this point.

In the Niagara district at Queenston the temporary wooden bridge, which carried Queen street over the railway which serves the Queenston generating station, was replaced by a new steel bridge. At the village of Chippawa a new approach span for the highway bridge crossing the Welland river was erected.

Throughout the several systems changes and improvements are constantly being made with a view to the maintenance of equipment at high efficiency. In this connection special attention continues to be given to the problem of protection by high-speed relays and other special devices.

### Operating Conditions

During the past year the quality of service rendered throughout the several systems and districts was generally satisfactory. Interruptions were few in number and most of those that did occur affected relatively small areas. No serious failures of equipment occurred.

In those districts where the water supply is an important operating feature, notably those served by the Georgian Bay, Eastern Ontario and Thunder Bay systems, the amount and seasonal distribution of the flow of the various rivers were very favourable during the year; more so than for several years past.



Among the new developments in operating equipment may be mentioned the new permanent-magnet generator installed for governor drive on one of the units at Alexander. This is the first governor drive of this type to be used. It has proved very satisfactory and represents a distinct advance in engineering design. The automatic synchronizing equipment installed at the same station is the first installation of equipment of this nature in any station of the Commission and one of the first installations anywhere on generators of such large size. Supervisory equipment for remote control at Alexander generating station was put into service during the year. This is one of the largest stations in which such automatic control equipment has been installed up to the present time. Throughout the systems generally the special attention given to high-speed relay protection has improved service and given additional protection to equipment. Details of this and other operating features are given in the body of this report.

In connection with the operation of its transmission and distribution lines the Commission maintains a Forestry division with an expert field staff. The work of this staff has met with very favourable reception from property owners and public officials. During the year more than 46,000 trees were pruned, cabled or removed at an average overall cost of \$1.85 per tree.

#### COST OF ELECTRICAL SERVICE FURNISHED BY THE COMMISSION

The function of the Commission is not only to use its best endeavours to provide for the people of Ontario an adequate and reliable supply of electrical energy, but also to ensure that the cost of that electrical energy to the consumers shall be the minimum consistent with the financial stability of the enterprise. The success that has been attained in the accomplishment of the latter object may be appreciated by a careful study of the actual rates to consumers as presented in Statement "E," and of the statistical data setting forth the results that have been attained for the consumers under these rates, as presented in Statement "D," in conjunction with the various financial statements of the Report.

The bill for retail service rendered, is the practical aspect of Hydro service with which the average consumer is most concerned. It is, therefore, a satisfaction to note that except in a very few cases the rates for service during the period of depression have been maintained at their low levels or have been made lower.

The knowledge that there are substantial reserves of power which can be distributed at low cost is a distinct encouragement to the industrial organizations of the Province. Moreover, notwithstanding the generous use made of electrical service by the domestic and rural consumers in Ontario, there is still a large potential market for numbers of electrical appliances which the low cost of electricity makes it economically practicable to use. In this connection the Commission is inaugurating a campaign for the greater use of domestic hot-water heaters.

## LOAD CONDITIONS

The demand for power in Ontario has continued at approximately the same levels as during the previous year.

It has been the custom to show at this place in the Annual Report the total loads for October and December of the current and previous years. Conforming with last year's Report, and for reasons fully stated therein, the following figures are first presented relating to Canadian load only, that is, exclusive of export power.

	October 1931	December 1931	October 1932	December 1932
Niagara system (Canadian load only)....	756,032	775,180	789,008	786,059
Other systems, total.....	245,273	253,114	239,438	251,898
Grand total (Canadian loads only).....	<u>1,001,305</u>	<u>1,028,294</u>	<u>1,028,446</u>	<u>1,037,957</u>

It will be noted that the figures for the current year show a slight increase over the previous year. Comparing figures for the complete fiscal years of 1932 and 1931, the average load of all systems in Ontario shows a slight decrease, amounting to  $1\frac{1}{2}$  per cent. A slight improvement in conditions towards the end of the year may be inferred from the fact that, although the average load for the entire fiscal year decreased slightly, the loads for October and December, which are presented in the table above, show an increase.

As special publicity has been given to the effect of the business depression on power sales, it is appropriate to call attention to the fact that the Commission is selling more power and operating more power stations and transmission lines than it did in 1928, the year before the depression started. The depression has had, of course, a marked effect on the sale of power. A substantial proportion of the industrial plant of Ontario is at present idle, or working far below its capacity, and power temporarily discontinued in respect of such industrial plant has not been entirely absorbed by the continued growth of domestic and certain other demands. The net result has been to postpone the substantial increases in total load that otherwise would have occurred in these years.

The following tabulation corresponds to that given for several years in this place in the Report and shows the power supplies to the various systems at the close of the year including, in the case of the Niagara system and of the grand total, export power as well as power for Canadian use. The lessened industrial activity has continued to curtail the market for surplus power. Apart from its export of power under the firm power contracts acquired by the Commission in its purchase of the Ontario Power Company, there has been practically no export of power during the past two years.



## DISTRIBUTION OF POWER TO SYSTEMS

## 20-MINUTE PEAK HORSEPOWER

## SYSTEM COINCIDENT PEAK

System	October 1931	December 1931	October 1932	December 1932
Niagara system.....	805,630	828,200	839,946	838,338
Dominion Power and Transmission system	48,659	56,166	43,968	48,525
Georgian Bay system.....	26,356	27,531	25,666	26,424
Eastern Ontario system*.....	85,857	91,253	80,544	86,716
Thunder Bay system.....	51,600	50,300	65,700	63,800
Northern Ontario system:				
Sudbury and Abitibi districts.....	27,200	21,850	17,761	20,576
Nipissing district.....	3,689	4,088	3,751	3,799
Patricia district.....	1,912	1,926	2,048	2,058
Totals.....	1,050,903	1,081,314	1,079,384	1,090,236

\*Eastern Ontario system includes Central Ontario, St. Lawrence, Rideau, Ottawa and Madawaska districts.

## FINANCIAL SUMMARIES

The financial statements embodied in this Report are presented in two main divisions, namely, a division—Section IX—which deals chiefly with the operations of the Commission in the generation, transformation and transmission of electrical energy to the co-operating municipalities; and a division—Section X—which deals with the various operations of the municipal electric utilities in the localized distribution of electrical energy to consumers. In Section IX, “Rural Operating” reports are also given, which summarize the results of the local distribution of rural electrical service by the Commission to the individual consumers in rural power districts. This work is performed by the Commission on behalf of the respective townships co-operating to provide rural service.

The cumulative results of the operation of the several systems of the Commission as set forth in this Report demonstrate a sound financial condition.

## CAPITAL INVESTMENT

The total investment of the Hydro-Electric Power Commission of Ontario in power undertakings and hydro-electric railways is \$273,248,829.59, exclusive of government grants in respect of construction of rural power districts' lines; and the investment of the municipalities in distributing systems and other assets is \$109,309,934.16, making in power and hydro-electric railway undertakings a total investment of \$382,558,763.75.

The following statement shows the capital invested in the respective systems, districts and municipal undertakings:

Niagara system.....	\$202,098,894.93
Chats Falls development.....	5,878,493.70
Georgian Bay system.....	8,329,025.78
Eastern Ontario system (including Nipissing district).....	21,060,823.96
Thunder Bay system.....	18,480,738.51
Northern Ontario Districts (including the Generating Plants, Transmission Lines and Transformer Stations in the Sudbury, Patricia and Abitibi Districts)...	10,786,686.10
Hydro-Electric railways.....	1,985,113.20
Office and service buildings, construction plant, inventories, etc.....	4,629,053.41
	<hr/>
	\$273,248,829.59
Municipalities distributing systems and other assets (exclusive of \$23,066,129.81 of municipal sinking fund equity in H.E.P.C. system).....	109,309,934.16
	<hr/>
	<u>\$382,558,763.75</u>

#### REVENUE OF COMMISSION

The revenue of the Commission derivable from the municipal utilities operating under cost contracts and from other customers with whom—on behalf of the municipalities—the Commission has special contracts, all within the Niagara, Georgian Bay, Eastern Ontario and Thunder Bay systems, aggregates \$28,055,895.46.

The following statement shows how this revenue has been appropriated:

Revenue from municipal electric utilities and other power customers.....	\$28,055,895.46
Operation, maintenance, administration, interest and other current expenses.....	\$25,968,030.62
Reserves for sinking fund, renewals, contingencies and obso- lescence provided in the year.....	4,666,229.51
	<hr/>
	\$30,634,260.13
Less: Appropriated from obsolescence and contingencies reserves	2,668,147.78
	<hr/>
	27,946,112.35
Net balance credited to municipalities under cost contracts.....	<u>\$109,783.11</u>

In connection with the foregoing statement it should be noted that, in making its annual determinations of costs chargeable for power supplied to the participating municipalities, the Commission for many years has followed a policy which recognizes the desirability of stabilizing the costs per horsepower one year with another. Commencing with 1926 and continuing to 1930, there



were included in the amounts set aside to the reserve for obsolescence and contingencies, additional sums designed to care for possible lean years that might come in the future. A proportion of these extra reserves was derived from the sale of surplus power. In 1932 the contingency reserve was drawn upon in the case of the Niagara system to the extent of \$2,544,648.63, and the similar reserve in respect of the Thunder Bay system was drawn upon to the extent of \$143,499.15. This relief was given to the municipalities in their cost of power to compensate for the increased costs and reduced revenues in the year. In all other respects the various reserves have continued to be accumulated on the same basis as formerly, with the result that in the aggregate the reserves of the Commission show a net increase for 1932 of \$3,741,074.72 as compared with the totals at the end of 1931.

### RURAL ELECTRICAL SERVICE

During the past few years very substantial progress has been made in Ontario in the field of rural electrification. Practically all rural electrical service is now given through rural power districts which are operated directly by the Commission. There is now rather more than \$16,964,000 invested in the rural power district systems established by the Commission. Towards this rural work the Ontario Government, pursuant to its policy of promoting the basic industry of agriculture, has, in the form of grants-in-aid, contributed 50 per cent of the costs of transmission lines and equipment, or some \$8,393,000. A total of 8,918 miles of transmission lines have been constructed to date, of which 721 miles were constructed during the past year. There are now more than 60,000 customers supplied in the rural power districts.

### RURAL POWER DISTRICTS—OPERATIONS FOR THE YEAR 1932

	Niagara system	Georgian Bay system	Eastern Ontario system	Thunder Bay system	Totals
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Cost of power as provided to be paid under Power Commission Act.....	793,950.49	100,332.42	183,372.39	547.62	1,078,202.92
Cost of operation, maintenance and administration.....	546,720.01	49,909.36	118,744.58	412.59	715,786.54
Interest.....	290,757.17	34,832.21	72,097.43	368.45	398,055.26
Renewals.....	236,925.30	26,145.83	59,621.00	264.72	322,956.85
Obsolescence and contingencies....	118,462.65	26,145.83	29,810.50	132.36	174,551.34
Sinking fund.....	63,315.62	7,237.63	16,015.88	69.69	86,638.82
Total expenses.....	2,050,131.24	244,603.28	479,661.78	1,795.43	2,776,191.73
Revenue from customers.....	2,070,703.84	215,718.07	464,258.52	1,672.97	2,752,353.40
Net surplus, all districts.....	20,572.60	.....	.....	.....	20,572.60
Net deficit, all districts.....	.....	28,885.21	15,403.26	122.46	44,410.93
Net deficit, all systems.....	.....	.....	.....	.....	\$23,838.33

## MUNICIPAL ELECTRIC UTILITIES

The following is a summation of the year's operation of the local electric utilities conducted by municipalities receiving power under cost contracts with the Commission:

Total revenue collected by the municipal electric utilities.....	\$31,216,210.12
Cost of power.....	\$19,109,036.25
Operation, maintenance and administration.....	5,492,591.38
Interest.....	2,532,940.93
Sinking fund and principal payment on debentures.....	2,244,367.86
	<u>29,378,936.42</u>
Amount available and set aside for depreciation and other reserve purposes....	<u>\$1,837,273.70</u>

The setting-up of the reserves on rates customarily adopted in the past would have required an amount of \$1,920,896.22, which is \$83,622.52 in excess of the amount shown in the foregoing table as available for the present year. In this connection it is important to note that the municipal Hydro utilities provide for the retirement of their capital liabilities by either the instalment or sinking-fund method, and such payments are treated as part of the cost of the service.

## RESERVES OF COMMISSION AND MUNICIPAL ELECTRIC UTILITIES

The total reserves of the Commission and the municipal electric utilities for sinking fund, renewals, contingencies and insurance purposes amount to \$122,770,103.91 made up as follows:

Niagara system.....	\$50,900,344.13
Georgian Bay system.....	2,482,836.51
Eastern Ontario system.....	5,228,590.62
Thunder Bay system.....	2,739,224.49
Northern Ontario districts—Sudbury and Patricia.....	164,783.67
Service building and equipment.....	664,713.82
Bonnechere storage.....	1,733.81
Hydro-Electric Railways (Guelph).....	109,240.31
Insurance, workmen's compensation and staff pensions.....	3,854,019.25
	<u>\$66,145,486.61</u>
Total reserves of the Commission.....	\$66,145,486.61
Total reserves of municipal electric utilities.....	<u>56,624,617.30</u>
Total Commission and municipal reserves.....	<u>\$122,770,103.91</u>



As has been commented above in connection with the statement of revenues, the total reserves of the Commission increased in 1932 by \$3,741,074.72 over the total for 1931, which was \$62,404,411.89. The fact that the net increase in total reserves was, in 1932, less than in some former years, reflects the advantageous working out of the Commission's policy of cost stabilization, under which withdrawals were made in 1932 from special reserves provided out of revenues of earlier years for that purpose. The net increase in the total of Commission and municipal reserves for the year was \$7,130,377.53.

The consolidated balance sheet of the municipal electric utilities, on page 262, shows a total cash balance of \$3,185,442.00, and bonds and other investments of \$2,059,325.10. The total surplus in the municipal books now amounts to \$39,820,131.64 in addition to depreciation and sundry other reserves aggregating \$16,804,485.66; these two amounts making the total of \$56,624,617.30 shown in the above table.

\* \* \*

The following is a brief summary of the principal operations relating to the several systems of the Commission:

#### NIAGARA SYSTEM

The Niagara system embraces all territory lying between Niagara Falls, Hamilton and Toronto on the east and Windsor, Sarnia and Goderich on the west served with electrical energy generated at plants on the Niagara river, supplemented with purchased power transmitted from plants on the Gatineau, St. Lawrence and Ottawa rivers. A few municipalities and districts of the Niagara system are served also with power developed at DeCew Falls.

Power as supplied to the Commission by the Gatineau Power Company is received by the Commission at the interprovincial boundary on the Ottawa river and is transmitted over two 220,000-volt steel-tower transmission lines to Leaside. Power obtained from Chats Falls development on the Ottawa river, which plant was constructed jointly by the Commission and the Ottawa Valley Power Company, formerly the Chats Falls Power Company, is transmitted from Chats Falls to Leaside over a third 220,000-volt steel-tower line.

Arrangements for progressive delivery of increased quantities of power, made some years ago, will furnish power supplies for this system, which, with a moderately rapid return to normal business conditions, should be adequate for the immediate future. In addition to power contracted for with the Gatineau Power Company and power obtained from the development at Chats Falls, which provides the Commission with 192,000 horsepower, the Commission holds contracts for the delivery of additional power, amounting eventually to 250,000 horsepower, to be developed on the St. Lawrence river by the Beauharnois Light, Heat & Power Company, and 125,000 horsepower to be delivered to the Commission as required from a plant on the Lièvre river under a contract with the James MacLaren Company Limited, subsequently assigned to a subsidiary power company known as MacLaren-Quebec Power Company. Commencing in October, 1932, the first block of 35,000 horsepower was taken under the contract with the Beauharnois Light, Heat & Power Company.

The undertakings and companies of the Dominion Power & Transmission Company Limited which were purchased in 1930 have been operated since November 1, 1931, as part of the Niagara system. An agreement was entered into with the Hamilton Hydro-Electric System and the Brantford Hydro-Electric System, by which the Commission sold the distribution systems, substations and other properties in these cities.

The total capital invested by the Commission on behalf of the co-operating municipalities of the Niagara system amounts to \$207,977,388.63. This amount includes the investment in the power properties purchased from the Dominion Power and Transmission Company (which have been merged with, and now form part of the Niagara system), also the Commission's share of the generating plant at Chats Falls, together with the transformer and switching stations at that point and the transmission lines from the Ottawa river to the Niagara system. The accumulated reserves for renewals, obsolescence, contingencies and sinking fund, aggregate \$50,900,344.13.

From the rural power districts of this system, which are directly operated by the Commission, the revenue received for the year from customers was \$2,070,703.84, and the total cost of supplying the service was \$2,050,131.24, leaving a balance of \$20,572.60, which is placed to the credit of districts in this system.

With respect to the electric utilities of the various urban municipalities of the Niagara system, the cost of power, as adjusted by the Commission at the close of the year was \$208,934.39 less than the total amount collected at the interim rates and this sum has been credited to the municipal utilities. The total revenue of the municipal electric utilities served by this system was \$25,499,082.64.

After meeting all expenses in respect of operation—including interest—setting up the usual standard depreciation reserve (which amounted to \$1,594,493.31) and providing \$2,037,378.48 for the retirement of instalment and sinking-fund debentures, the total net shortage for the year for the municipal electric utilities served by the Niagara system amounted to \$216,354.05.

#### GEORGIAN BAY SYSTEM

The territory served by the Georgian Bay system includes that portion of the Province adjacent to Georgian bay and lake Simcoe. The area extends from Huntsville in the north to Port Perry in the southeast, and on the west and north it is bounded by lake Huron and Georgian bay. It thus takes in the counties of Bruce, Grey, Dufferin, and Simcoe, and the northern portions of the counties of Huron, Wellington and Ontario, as well as a large portion of the district of Muskoka.

During the year the properties of the Mildmay Electric Company and the Formosa Electric Light Company were purchased by the Commission and



merged with the Georgian Bay system. By this arrangement the last of the districts directly, or indirectly, connected with the W. B. Foshay Company's operations in Bruce county have been taken over by the Commission and the entire area in Bruce county consolidated with the Georgian Bay system.

Electrical energy is obtained from eleven hydro-electric generating plants, three of which are situated on the south branch of the Muskoka river, two on the Muskoka river at Bala, two on the Severn river, one on the Beaver river, and three on the Saugeen river, supplemented by power from the Niagara system through frequency changer stations at Hanover and Mount Forest.

The demands of the various municipalities throughout the year remained practically the same as in the previous year; an expansion, however, took place in rural power districts, both in the area served and in the number of consumers in existing districts. The increase in the system demand over the previous year is almost entirely due to these conditions.

As this was a good water year there was a surplus of water at all plants, and ample capacity was available for supplying the additional power demand.

The total capital invested by the Commission on behalf of the co-operating municipalities of the Georgian Bay system is \$8,329,025.78, and the accumulated reserves for renewals, obsolescence, contingencies, and sinking fund aggregate \$2,482,836.51.

The revenue received for the year from customers in rural power districts of this system which are directly operated by the Commission was \$215,718.07, and the total cost of supplying service was \$244,603.28, leaving a balance of \$28,885.21, which has been charged to districts in this system.

With respect to the electric utilities of the various urban municipalities of the Georgian Bay system, the actual cost of power supplied by the Commission for the year was \$10,546.19 less than the total amount collected at the interim rates. This sum has been credited to the municipalities operating under cost contracts. The total revenue of the municipal electric utilities served by this system was \$1,153,622.31, an increase of \$38,419.49 over the previous year.

After meeting all expenses in respect of operation—including interest—setting up the usual standard depreciation reserve (which amounted to \$68,893.47) and providing \$57,236.15 for the retirement of instalment and sinking-fund debentures, the total net shortage for the year for the municipal electric utilities served by the Georgian Bay system amounted to \$47,082.77.

#### EASTERN ONTARIO SYSTEM

This system serves that part of Ontario lying east of the areas served by the Georgian Bay and Niagara systems. The districts included are the Central Ontario, St. Lawrence, Rideau, Ottawa and Madawaska.

Power is supplied from developments owned by the Commission on the Trent Canal system and the Mississippi and Madawaska rivers. Power is

purchased from the Gatineau Power Company, the Cedar Rapids Transmission Company, the Rideau Power Company, the Corporation of Campbellford and the Beach estate at Iroquois. No major changes were made in generation or transmission facilities during the year.

The corporation of Trenton purchased the local electric distribution system, and the corporation of Cobourg purchased the local electric distribution system and waterworks from the Commission. The purchases were made on the basis of the Commission's book value of the plants less accumulated renewal reserves. These municipalities entered into contracts for the purchase of power at cost from the Commission.

All the municipal distribution properties forming part of the Electric Power Company property have now been sold to the municipalities concerned, except the plants in Millbrook, Newburgh, Newcastle and Orono, and the gas plant in Cobourg.

The power demands of this system have not changed materially from the previous year and all demands for power by municipalities and customers of the Commission were met without difficulty from the generating plants and purchased supply.

The total capital invested by the Commission on behalf of the co-operating municipalities of the Eastern Ontario system is \$21,060,823.96, and the accumulated reserves for renewals, obsolescence, contingencies and sinking fund aggregate \$5,228,590.62.

In the rural power districts of this system, which are directly operated by the Commission, the revenue received for the year from customers was \$464,258.52, and the total cost of supplying the service was \$479,661.78, leaving a balance of \$15,403.26, which was charged to the districts in this system.

With respect to the electric utilities of the various urban municipalities of the Eastern Ontario system operating under cost contracts the actual cost of power supplied by the Commission during the year was \$40,705.28 less than the total amount collected at the interim rates and this has been credited to the municipal utilities. The total revenue of the municipal electric utilities served by this system was \$3,178,756.25, an increase of \$294,978.63.

After meeting all expenses in respect of operation—including interest—setting up the usual standard depreciation reserve (which amounted to \$211,657.36) and providing \$127,831.33 for the retirement of instalment and sinking-fund debentures, the total net surplus for the year for the municipal electric utilities served by the Eastern Ontario system amounted to \$162,022.56.

#### THUNDER BAY SYSTEM

The Thunder Bay system serves a portion of the district of Thunder Bay, more especially the area lying between the international boundary and lake Nipigon. Power is secured from two hydro-electric developments on the Nipigon river, one at Cameron Falls and the other at Alexander, and is utilized largely in connection with the pulp and paper industry and the grain trade. Both of these



industries are still suffering on account of the world-wide trade depression. The total system demand for the year was slightly less than that of the previous year; there is, however, some indication of an early improvement. Negotiations are being carried on for the sale of a substantial amount of power in connection with electric steam generation in the pulp and paper industry.

The Commission has, in the Thunder Bay system, a total investment of \$18,480,738.51, and accumulated reserves for renewals, contingencies, and sinking fund aggregate \$2,739,224.49.

The cost of power to this system as adjusted by the Commission at the close of the year was \$126,564.42 in excess of revenue from the interim monthly billing, which sum has been charged to the municipalities operating under cost contracts. The total revenue of the municipal electric utilities in this system was \$1,384,748.92. The three municipalities served by this system operated with a net surplus of \$17,791.80, after providing depreciation and other reserves to the extent of \$45,852.08 and \$21,921.90 for the retirement of debentures.

### NORTHERN ONTARIO SYSTEM

This system covers all of that portion of the Province lying north of the French river and lake Nipissing, and west of the Quebec boundary, with the exception of the area served by the Thunder Bay system. The active districts in the Northern Ontario system served direct by the Commission are the Nipissing district, the Sudbury district, the Abitibi district, the Manitoulin district and the Patricia district. It should be understood that these districts are not interconnected as are the districts of other systems.

In certain sections of the area embraced by the Northern Ontario system there are independent municipal utilities; engineering assistance and advice concerning the operation and maintenance of these utilities is given by the Commission when requested.

### NIPISSING DISTRICT

This district serves the area adjacent to the eastern shores of lake Nipissing, and includes the city of North Bay, the villages of Callander and Powassan, and the North Bay and the Powassan rural power districts, which latter consist of portions of the townships of Ferris, Himsworth, Nipissing and Widdifield. Power is obtained from three hydro-electric developments on the South river and this supply is supplemented when necessary by power purchased from The Abitibi Power and Paper Co.'s development at Crystal Falls on the Sturgeon river.

The generated peak and average loads on this district show very little change from last year, being higher for some months than for the corresponding months of the previous year, and lower for other months. Over the entire year there were slight increases in both peak and average generated loads.

For the purpose of financial administration the Nipissing district of the Northern Ontario system is associated with the districts of the Eastern Ontario system.

## SUDBURY DISTRICT

The active area in this district lies in and adjacent to the city of Sudbury. Power is derived from three developments on the Wanapitei river, and is supplied largely to the city of Sudbury and to various mining companies at 60 cycles only. There has been a manifestation of activity in rural districts adjacent to Sudbury throughout the year and the Commission has given assistance and information to the various communities concerning the possibilities of obtaining hydro-electric service.

A general decrease in load has been experienced in this district during the year. A very small portion of this decrease is due to reduced domestic consumption, the major portion being due to the lessened activities of most of the industrial customers in the mining and smelting industry. As a large portion of the decrease is paid for under the minimum clauses of the power contracts, revenues have not been as adversely affected as load conditions would indicate.

## ABITIBI DISTRICT

This district comprises the area within transmission distance of the transmission line between Hunta and Sudbury. Up to October 1, 1932, power was obtained under a contract entered into by the Commission with The Ontario Power Service Corporation Limited, and after October 1, from the Abitibi Power & Paper Company. Power is supplied to mining companies at 25 cycles only.

The operation of the 189 miles of 110,000-volt steel-tower line between Hunta and Copper Cliff was satisfactory throughout the year. Up to the end of the fiscal year, this line comprises all of the Commission's property in this district.

## PATRICIA DISTRICT

This district comprises the territory adjacent to the Ear Falls development at the foot of Lac Seul on the English river and power is being supplied at the present time to a large gold mine in the Red Lake mining area. Power is available in this district for mining or other purposes when requirements lie within reasonable transmission distance of the development.

The generating and transformer station at Ear Falls have been in satisfactory operation throughout the year. All equipment has functioned as required, there being no failure of major importance. The load on the system has shown an increase over that existing during the previous year, the average monthly energy generated being about 29 per cent greater and the average monthly peak being about 17 per cent greater during 1932 than in 1931.

The 44,000-volt transmission line between the generating station and the Howey gold mine, which is owned by the Howey Gold Mines, Limited, has been operated and maintained for them throughout the year under the same arrangement as in previous years. This transmission circuit has functioned perfectly during the year and has not been responsible for any interruption to service. Patrol and other work has been carried out along this transmission line throughout the year.



## MANITOULIN DISTRICT

This district comprises the entire area of Manitoulin Island and was formed during the year in order to provide service to various sections in the vicinity of Gore Bay and Mindemoya. Various meetings were held for the purpose of explaining to prospective customers matters pertaining to procedure for obtaining service, and the utilization of electrical energy. Arrangements were finally made for the formation of a rural power district, in accordance with the various Acts and legislation governing rural distribution. Negotiations were conducted with The Little Rapids Pulp Company for a supply of power from a development at Kagawong. It is expected that the construction work will be completed and service made available early in 1933.

## THE ANNUAL REPORT

The Table of Contents, pages xxv and xxvi, conveys a good understanding of the scope of the matters dealt with in the Report, to which there is also a comprehensive Index. To those not conversant with the Commission's Reports the following notes will be useful.

In Section II, pages 5 to 52, dealing with the Operation of the Systems, are a number of interesting diagrams showing, graphically, the monthly loads on the various systems. Tables are also presented showing the amounts of power taken by the various municipalities in October during the past three years.

The rural distribution work of the Commission has proved of widespread interest and special reference to this is made in Section III, on pages 61 to 78. The power distributed to rural districts is, and possibly must always be, but a relatively small proportion of the power distributed by the Commission. The supplying of electrical service in rural areas, and especially on the farm, has, however, been of great economic benefit to Ontario. The Provincial Government grants-in-aid of the capital cost of this work have been of value to agricultural activities, and have assisted the Commission to extend rural transmission lines to many areas.

In Sections IV, V and VI will be found information respecting progress of work on new power developments and on transmission system extensions, together with photographic illustrations.

About one-half of the Report is devoted to financial and other statistical data which are presented in two Sections, IX and X.

Section IX presents in summary form the financial statements relating to the operations of the Commission chiefly in the generation, transformation and transmission of electrical energy to the co-operating municipalities. It is introduced by an important explanatory statement which appears on pages 131 to 135, to which special reference should be made.

Section X presents in summary form the financial statements relating to the operations of the municipalities in the localized distribution of electrical energy to consumers. It also contains details of the costs of electrical energy to consumers in the various municipalities and tabular statements of the rates in

force which have produced these costs. An explanation of the various tables and statements is given at the commencement of this Section on pages 255 to 257; and a special introduction to Statement "D," which relates to the cost of electrical service in Ontario, together with a diagram, appears on pages 380 to 383.

In its Annual Reports the Commission aims to present a comprehensive statement respecting the activities of the whole undertaking under its administration. Explanatory statements descriptive of the operations of the Commission in various branches of its work are suitably placed throughout the Report in order that the citizens of the Province may be kept fully informed upon the working-out of the Commission's policies.

The Commission receives many letters asking for general information respecting its activities, as well as requests for specific information concerning certain phases of its operations. In most cases these enquiries can satisfactorily be answered by simply directing attention to information presented in the Annual Report of the Commission. Real benefit would result to the "Hydro" undertaking if those who are commenting upon aspects of the Commission's work would first make sure by consulting the Commission's publications that the data upon which their comments are to be based are adequate and pertinent to the subject in hand. By such a course much misrepresentation, as well as inconvenience, would be avoided.

\* \* \*

### **The Present Situation**

Respecting the present power situation, the circumstances described in last year's Annual Report continued to apply throughout 1932. A still larger proportion of industrial capacity in general was idle than the proportion in 1931, and obviously the Commission must correspondingly maintain a larger proportion of reserve power capacity. To fail to do so would entail a risk of industry being prevented from resuming its former scale of activities. The power provisions made in the past in order to meet requirements of present years were on a conservative basis; that is to say, they were substantially less than would have been required under a continuance of the rate of growth that had consistently been maintained over a period of eighteen years up to 1929.

In this connection, the outcome of the Commission's financial reserve policy, followed over a period of several years, has been specially beneficial. As has been noted, extra funds placed in reserve in 1926 to 1930 with a view to cost stabilization, have in 1932 assisted in carrying the charges entailed by the necessary present provision of power reserves. It has not been necessary to increase the rates to consumers in general, and indeed, the average cost per kilowatt-hour to domestic consumers throughout the Province has continued to decrease. After all adjustments, including the special withdrawals for cost stabilization, there was a net increase in reserves of \$3,741,074.72. Such a result, achieved under the difficult economic circumstances of 1932, together with the fact that the Commission's reserves now aggregate \$66,145,486.61, demonstrate, it is believed, a strong financial position which is cause for satisfaction to all interested in Ontario's welfare.



With respect to the immediate outlook, it is of course impossible to predict with certainty even approximately what will be the course of general industrial activity, and of power demands which depend upon such activity. Many outstanding leaders have expressed the opinion that recovery when it occurs will be of a gradual nature. On the other hand, some features of past experience point to the possibility of very rapid resumption of utilization of power temporarily discontinued. In these circumstances, the Commission has pursued a course of studying means whereby reserve capacity may be put to present use, while still retaining in large measure its characteristics as reserve against shortage of power for essential uses. Negotiations were in hand in 1932 for the utilization of some 80,000 horsepower on the Niagara system for steam raising in the pulp and paper industry, and the Commission is conducting similar negotiations with a view to other installations on this system and on the Thunder Bay system.

Also, the Commission has had under investigation the possibility of designing an efficient type of domestic water-heating installation that could be purchased and installed at low cost, and has been working out a plan whereby, in co-operation with the municipalities, the Commission might install such water-heating equipment without cost to the consumers. Under such a programme, the revenues from the sale of power for operation of the heaters would represent an economic saving from employment of power that would otherwise not be utilized at this time, and would in a short period, reimburse the Commission for its outlay. Besides affording to the consumers the benefit of a continuous supply of hot water at low cost under special new low rates, such a programme would give a substantial stimulus to employment throughout the Province by the expenditures upon construction and installation of equipment.

Thus by the various means that have been mentioned—maintenance of adequate power reserves for encouragement of industrial recovery; past accumulation and subsequent utilization of special financial reserves for cost stabilization; the fulfillment of all financial obligations; and the devising of means for profitable employment of capacity—the Commission has sought to afford benefit and encouragement to the activities of Ontario citizens while maintaining its undertaking in an unchallengeable physical and financial position.

Owing to the curtailment of activities in construction work, the Commission has found it necessary to reduce the number of its employees, not only in the field, but also upon its designing and drafting staffs. It is with great regret that the Commission has had to follow the unavoidable course of releasing men who have served the Hydro undertaking so faithfully. Nothing will give the Commission greater pleasure than to see such a return of general industrial and commercial activity as will afford opportunities for work for those now unemployed.

During the past year there has been noted in the press of the Province and especially in that of the smaller cities, towns and villages, an increasing tendency, in matters relating to the Hydro enterprise, to consult the authentic sources of information respecting the Commission's operations, such as the Annual Report and other official publications and statements that are issued from time to time. Moreover, while some seriously misleading statements continue to be made, tending to create quite unwarranted impressions respecting such matters, for

example, as the magnitude of reserve power supplies, it is evident that such statements are being critically scrutinized and the press of the Province in editorial articles not infrequently discriminately discounts adverse statements of an unfounded character. The Commission appreciates that the press has given generously of its space and services in recording and commenting upon matters relating to the Hydro undertaking, and for this the Commission especially desires to express its gratitude.

The Twenty-fifth Annual Report of the Hydro-Electric Power Commission is definitely reassuring. There have been difficult times in the past and doubtless there may be ups and downs in the future, but the record of the Hydro undertaking demonstrates that—especially under the economic stress of recent years—but very few business enterprises can parallel the past achievements and present status of the Hydro undertaking as recorded in this Report.

Respectfully submitted,

J. R. COOKE,  
*Chairman*



TORONTO, ONTARIO, March 31st, 1933.

HON. J. R. COOKE, M.L.A.,

*Chairman, The Hydro-Electric Power Commission of Ontario,  
Toronto, Ontario.*

SIR,—I have the honour to transmit herewith the Twenty-fifth Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year ended October 31st, 1932.

I have the honour to be,

Sir,

Your obedient servant,

W. W. POPE,  
*Secretary*





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# TWENTY-FIFTH ANNUAL REPORT OF THE Hydro-Electric Power Commission of Ontario

## SECTION I

### LEGAL

At the 1932 Session of the Legislative Assembly of the Province of Ontario, three Acts relating to the work of the Hydro-Electric Power Commission of Ontario were passed. These are reproduced in full in Appendix I to this report. The short titles to the said Acts are as follows:

- The Power Commission Act, 1932, Chapter 14.
- The Sandwich, Windsor and Amherstburg Railway Act, 1932, Chapter 56.
- The Windsor Essex and Lake Shore Rapid Railway Act, 1932, Chapter 99.

The agreements between the Hydro-Electric Power Commission of Ontario and the municipalities and corporations mentioned in the list hereunder given were approved by Order-in-Council dated the 29th day of December, 1932.

#### TOWNS

Bowmanville.....	Nov. 16, 1931
Cobourg.....	Feb. 8, 1932
Trenton.....	Sept. 30, 1931

#### TOWNSHIPS

Municipality of Neebing.....	July 6, 1932
Ancaster.....	Nov. 10, 1931
Ashfield.....	Dec. 29, 1931
Augusta.....	Dec. 30, 1931
Bedford.....	Oct. 27, 1931
Beverly.....	July 27, 1932
Billings.....	July 30, 1932
Burleigh and Anstruther.....	Jan. 11, 1932
Caledon.....	May 2, 1932
Cardwell.....	Sept. 23, 1932
Carnarvon.....	July 19, 1932
Culross.....	Nov. 17, 1931
East Flamboro.....	April 19, 1932
Fitzroy.....	July 1, 1932

Gordon and Allan.....	July 25, 1932
Greenock.....	Nov. 9, 1931
Humphrey.....	June 18, 1932
Muskoka.....	Oct. 28, 1931
Normanby.....	Nov. 23, 1931
North Cayuga.....	Nov. 21, 1931
North Grimsby.....	Aug. 13, 1932
Perry.....	April 28, 1932
Osgoode.....	Nov. 2, 1931
Ridout.....	Dec. 15, 1931
Saugeen.....	June 11, 1932
Sheffield.....	Feb. 15, 1932
Sunnidale.....	April 16, 1932
Tecumseh.....	Mar. 4, 1932
Vespra.....	June 10, 1932
Wellesley.....	Nov. 2, 1931
West Gwillimbury.....	Mar. 5, 1932
West Wawanosh.....	Dec. 21, 1931
Woolwich.....	Nov. 3, 1931

## CORPORATIONS

Canadian Industrial Alcohol Company, Limited.....	Nov. 1, 1931
Canadian Timber Company, Limited.....	April 25, 1932
The Cooksville Company, Limited.....	June 1, 1932
Eugene F. Phillips Electrical Works, Limited.....	June 1, 1932
Gypsum, Lime and Alabastine Canada, Limited.....	April 27, 1932
His Majesty The King, in the right of the Province of Ontario.....	Feb. 1, 1932
Interprovincial Brick Company, Limited.....	Nov. 4, 1931

## Right-of-Way

## Rural Power Lines

A large amount of work on rural power transmission lines involving the securing of pole and anchor rights, and in some cases tree-trimming and cutting rights, was carried on during the year. Wood-pole lines and extensions were constructed in the following rural power districts: Ailsa Craig, Alexandria, Amherstburg, Arnprior, Aylmer, Ayr, Baden, Bala, Barrie, Baysville, Beamsville, Beaumaris, Beaverton, Belle River, Belleville, Blenheim, Bond Lake, Bothwell, Bowmanville, Bradford, Brant, Brigden, Brockville, Bruce, Caledonia, Chatham, Chesterville, Chippawa, Clinton, Cobourg, Colborne, Creemore, Delaware, Dorchester, Dresden, Drumbo, Dundas, Dunnville, Dutton, Elmvale, Elmira, Elora, Essex, Eugenia, Exeter, Fenelon Falls, Forest, Fort William, Galt, Georgetown, Georgina, Goderich, Grantham, Gravenhurst, Guelph, Haldimand, Harrow, Huntsville, Iroquois, Keswick, Kingston, Lakefield, Listowel, London, Lucan, Lynden, Manitoulin, Markdale, Markham, Martintown, Maxville, Meaford, Medonte, Merlin, Millbrook, Milton, Milverton, Mitchell, Napanee, Nepean, Newcastle, Newmarket, Niagara, North Bay, Norwich, Norwood, Oil Springs, Omemee, Orangeville, Oshawa, Perth, Peterborough, Port Arthur, Port Hope, Port Perry, Prescott, Preston, Ripley, St. Jacobs, St. Marys, St. Thomas, Saltfleet, Sandwich, Sarnia, Scarborough, Simcoe, Smiths Falls, Sparrow Lake, Stamford, Stayner, Stirling, Streetsville, Tara, Thamesville, Tilbury, Tillsonburg, Trenton, Utterson, Uxbridge, Wallaceburg, Walsingham, Walton, Waterdown, Waterford, Welland, Wellington, Williamsburg, Woodbridge, Woodstock, Wroxeter.

As in previous years, lines of this class were located as far as possible on public roads, but in some cases in order to save trees, or owing to certain physical conditions on the right-of-way, certain lines have been constructed on private properties, rendering it necessary to secure location rights from the owners.

In cases where the Department of Public Highways or County Road Commissions have found it advisable to realign their roadways, it has been necessary to relocate poles, anchors, etc. In these cases settlements have been arrived at as provided by the "Public Service Works on Highways Act," under which the Commission and the other interested parties each pay fifty per cent of the actual cost of the labour involved, the Commission paying all other costs, if any.

## Low-Tension Lines

Construction work has been carried out on the following low-tension lines during the year:

Healey Falls to Norwood.  
 Todmorden to Brinlock Corners.  
 Norwood to Havelock.  
 Norwood to Hastings.

Napanee to Catarqui.  
 Warkworth to Newcombe.  
 Newcombe to Welcome.  
 Welcome to Oshawa.



**Low-Tension Lines—Continued**

Port Hope to Newcastle.  
 Bowmanville to Oshawa.  
 Napanee to Bath.  
 Belleville Switching Station to Belleville  
     Distributing Station.  
 Chesley to Paisley.  
 Kilsyth to Tara.  
 Hepworth to Wiarton.  
 Saugeen Junction to Derby Mills.  
 Walkerton to Walkerton Quarries.  
 Walkerton Quarries to Teeswater.  
 Melancthon to Amaranth.  
 Derby Mills to Tara.  
 Waubashene to South Falls.  
 Hanna Chute to South Falls.  
 Ragged Rapids to Big Chute.  
 Ragged Rapids to Bala.  
 Kilworth Junction to Wasdells Falls.  
 Kitchener to Hanover.  
 Derby Mills to Hepworth.  
 Forfar to Westport.  
 Lyn to Athens.  
 Cornwall to Winchester.  
 Dominionville to Alexandria.  
 Utterson to Windermere.  
 Beaumaris to Falkenburgh.  
 Windermere to Rosseau.  
 Niagara to Dundas.  
 Hamilton to Binkley's Corners.  
 Dundas to Hamilton.  
 Dundas to Caledonia.  
 Dundas to Bertram.  
 Guelph to Hamilton.  
 London to St. Thomas.  
 Kitchener to Waterloo.  
 Stratford to Tavistock.  
 Stratford to Sebringville.  
 Woodstock to Norwich.  
 St. Thomas to Sarnia.  
 St. Thomas to Shedden.  
 St. Thomas to Aylmer.  
 Brant to Brantford.  
 Brant to St. George.  
 Essex to Malden.  
 Hamilton Transformer Station to Stirton Ave.  
 Bridgman Avenue to Leaside.  
 Wiltshire Avenue to Weston.  
 Welland to Port Colborne.  
 Queenston to Saltfleet.  
 Queenston to Pelham.  
 Saltfleet to Burlington.  
 Allenburg to Dundas.  
 Allenburg to St. Thomas.  
 Pelham to St. Thomas.  
 Pelham to Nelson.  
 Fonthill to Welland.  
 Burlington to Islington.  
 Halton Junction to Cooksville.  
 Michigan Junction to Port Colborne.  
 Crowland to Port Colborne.  
 Wiltshire Avenue Junction to Bridgman  
     Avenue.  
 Erbs Junction to Stratford.  
 Wabash to Michigan Junction.  
 Merrittton to Lincoln.  
 Dundas to Lynden.  
 Lythmore to DeCewsville.  
 Hagersville to Jarvis.  
 DeCewsville to Cayuga.  
 York Mills to Newmarket.  
 York Mills to Langstaff.  
 Keswick to Sutton.  
 Danforth Junction to West Hill.  
 Don Junction to Scarborough.  
 Andrews Junction to Pottageville.  
 Langstaff to Mountjoy.  
 Williams to Sharon.  
 Ailsa Craig to Parkhill.  
 Mt. Brydges to Strathroy.  
 Dorchester to London.  
 Elginfield Junction to Ailsa Craig.  
 Broughdale to Ailsa Craig.  
 St. Jacobs to Elmira.  
 Walton to Blyth.  
 Sebringville Junction to Milverton Junction.  
 West Lorne to Rodney.  
 Brantford to Paris.  
 Burford to Waterford.  
 Waterford to Dover.  
 Paris to Burford.  
 Streetsville to Milton.  
 Newbury to Wardsville.  
 Newbury to Glencoe.  
 Tilbury to Fletcher.  
 Ridgetown to Thamesville.  
 Ridgetown to Rondeau.  
 Bothwell to Blenheim.  
 Bothwell to Ridgetown.  
 Bothwell to Wallaceburg.  
 Como to Dresden.  
 Dresden to Oil Springs.  
 Fletcher to Merlin.  
 Harrow to Kingsville.  
 Leamington to Kingsville.  
 Islington to Weston.  
 Albion Park to Woodbridge.  
 Wyoming to Watford.  
 Forest to Wyoming.  
 Forest to Petrolia.  
 Watford to Forest.  
 Sarnia to Forest.  
 Nipigon to Bare Point.  
 Smiths Falls to Forfar.  
 Arnprior to Galetta.  
 Burnstown to Arnprior.  
 Waubashene to Midland.  
 Fennell to Bradford.  
 Beeton to Tottenham.  
 Carlington to Richmond.  
 Beaverton to Cannington.  
 Kirkfield Junction to Kirkfield Distributing  
     Station.  
 Elliott Chute to Bingham Chute.  
 North Bay to Sturgeon Falls.  
 Smoky Falls to North Bay.

The right-of-way has been secured where necessary in these cases, and all claims for tree-trimming, crop damages, or other demands in connection with construction work have been settled.

**Substation Sites**

Sites for substations and operators' residences have been purchased at the following places during the year: Port Robinson, West Hill, Falkenburgh, Cumberland, Forest, Maxville, Dorion.

**Flooding Rights**

A number of claims for damages on account of flooding lands along the Ottawa river, at Trethewey Falls on the Muskoka river, and on the South river in the Nipissing system have been arranged.

**220,000-Volt Lines**

Quite a number of settlements have been closed for claims of various kinds on the several Gatineau lines which were outstanding last year. In a few cases owners have called on the official valuator to make an award, which led to satisfactory adjustments being made.

Additional 220,000-volt single-circuit steel-tower lines were constructed during the year between Chats Falls transmission station and Cumberland Junction, and between Cumberland Junction and the Interprovincial Boundary, to carry Beauharnois power. Ninety per cent of all claims, including tower rights, tree-trimming and damage claims, have been settled by negotiation.

**General**

The usual number of miscellaneous items, including right-of-way over Indian Reserves, disposal of lands no longer required for Commission purposes, leases for office and other purposes, have been dealt with by the Department.

## SECTION II

### OPERATION OF THE SYSTEMS

The quality of service rendered throughout the various systems during the past fiscal year was generally satisfactory. Interruptions were few in number, and most of those which did occur affected relatively small areas. No serious failures of equipment occurred.

Important extensions to equipment in operation were made at Chats Falls where six generators with accompanying switching equipment and transformers were installed, completing the development as scheduled at present. About 100 miles of 220,000-volt transmission line from Chats Falls to the Quebec boundary near Beauharnois was put into operation during October. This line has been delivering the first 35,000 horsepower under contract with the Beauharnois Light, Heat and Power Company.

The demand for power in the fiscal year 1932 was on the whole substantially equal to that of 1931, some systems showing slight increases, others small decreases. The average load of all systems in Ontario shows the slight decrease of 1.2 per cent.

As a measure of total demands for all systems combined, the method of adding together the annual peak loads of the individual systems sometimes gives anomalous results because of the diversity in the times at which they occur. For some purposes it is better to use the figures for kilowatt-hours or average load when dealing with combined totals.

During the fiscal year, the various systems show the following increases and decreases in their average load. The Niagara system (exclusive of export) shows an average decrease of 1.9 per cent without the Dominion Power and Transmission system, or 2.6 per cent including this system; the Thunder Bay system shows a reduction of only 0.7 per cent; the Eastern Ontario system shows a decrease of 5 per cent; the Georgian Bay system shows an increase of 4 per cent; and the Northern Ontario system shows an increase of 75 per cent. The large increase on the Northern Ontario system was due to the addition of the new Abitibi district. The Sudbury district showed a decrease of 15 per cent, the Nipissing district an increase of 1.3 per cent, and the Patricia district an increase of 29 per cent.

The export of surplus or off-peak power dropped to a negligible amount. Even the firm power, exported under contracts made by the Ontario Power



### TOTAL POWER GENERATED AND HYDRO-ELECTRIC GENERATING PLANTS

Generating Plants	Rated electrical horsepower of generators	Normal plant capacity Oct. 31, 1932 horsepower	Peak load during fiscal year 1931-1932 horsepower	Total output during fiscal year 1931-1932 kilowatt-hours
<b>Niagara system</b>				
Queenston-Chippawa—Niagara river....	533,000	522,000	493,298	1,852,645,000
"Ontario Power"—Niagara river.....	161,000	183,000	105,898	187,740,000
"Toronto Power"—Niagara river.....	110,000	147,000	24,129	47,232,000
Chats Falls—Ottawa river (Commission's half).....	107,100	96,000	94,504	184,519,550
<b>Dominion Power and Trans. system*</b>				
DeCew Falls—Welland canal.....	56,400	50,000	46,112	105,861,200
Steam plant—Hamilton.....	26,800	24,000	9,115	—351,300
<b>Georgian Bay system</b>				
South Falls—South Muskoka river....	5,100	5,350	5,780	19,919,760
Hanna Chute—South Muskoka river....	1,550	1,600	1,609	6,472,800
Trethewey Falls—South Muskoka river..	2,300	2,200	2,145	8,481,600
Bala No. 1 and No. 2—Muskoka river...	680	560	590	2,340,328
Big Chute—Severn river.....	4,610	5,625	5,845	15,758,280
Wasdells Falls—Severn river.....	860	1,100	1,206	4,664,600
Eugenia Falls—Beaver river.....	6,440	7,300	7,774	21,373,800
Hanover—Saugeen river.....	350	400	416	670,176
Walkerton—Saugeen river.....	375	500	543	1,988,800
Southampton—Saugeen river.....	415	370	275	620,000
<b>Eastern Ontario system</b>				
Sidney-Dam No. 2—Trent river.....	4,020	4,020	4,424	12,723,400
Frankford-Dam No. 5—Trent river.....	3,480	3,480	3,485	5,295,250
Meyersburg-Dam No. 8—Trent river....	6,600	6,430	7,828	16,614,480
Hague's Reach-Dam No. 9—Trent river..	4,800	4,500	4,759	11,815,490
Ranney Falls-Dam No. 10—Trent river..	9,650	9,650	10,724	21,511,620
Seymour-Dam No. 11—Trent river.....	4,020	4,020	3,485	11,968,810
Heely Falls-Dam No. 14—Trent river....	12,060	12,060	15,550	26,133,654
Auburn-Dam No. 18—Otonabee river....	2,010	2,010	2,547	7,565,600
Fenelon Falls-Dam No. 30—Sturgeon river	1,070	860	1,072	1,830,235
High Falls—Mississippi river.....	2,810	2,440	3,116	8,155,944
Carleton Place—Mississippi river.....	530	430	429	3,720
Calabogie—Madawaska river.....	5,400	4,300	1,960	4,736,190
Galetta—Mississippi river.....	1,070	860	603	583,400
<b>Thunder Bay system</b>				
Cameron Falls—Nipigon river.....	68,400	75,000	38,700	106,073,000
Alexander—Nipigon river.....	51,300	54,000	34,304	142,512,000
<b>Northern Ontario system</b>				
<b>Nipissing district</b>				
Nipissing—South river.....	2,750	2,350	2,440	4,827,000
Bingham Chute—South river.....	1,200	1,200	1,314	3,563,200
Elliott Chute—South river.....	1,930	1,750	1,930	3,670,800
<b>Sudbury district</b>				
Coniston—Wanapitei river.....	5,100	5,500	5,563	13,454,472
McVittie—Wanapitei river.....	2,680	2,550	2,882	12,006,264
Stinson—Wanapitei river.....	5,360	6,150	6,300	15,160,104
<b>Patricia district</b>				
Ear Falls—English river.....	5,400	5,000	2,048	10,385,800
<b>Total generated.....</b>	<b>1,218,620</b>	<b>1,255,565</b>	<b>954,702</b>	<b>2,900,527,027</b>

\*In process of incorporation with the Niagara system.

NOTE.—The first column of figures in the above table shows the electrical horsepower equivalent of the rating put on the generators by the manufacturers. These ratings do not take into consideration water conditions and other factors which affect the over-all capacity of the generating plant. The plant capacities which appear in the second column of figures are nominal operating ratings and cannot be used in determining the power continuously available in the case of individual plants or any group of plants. Plant ratings, regardless of installed capacity, depend upon a number of factors, such as net head, water supply, machine outages, changes in operating schedule, and load factor, all of which factors may vary from time to time. It may be necessary to change these ratings somewhat from year to year due to the above causes, and also due to plant additions or alterations.

## PURCHASED—ALL SYSTEMS

## POWER PURCHASED

Power source	Contract amount horsepower	Total purchased kilowatt-hours
Canadian Niagara Power Co.—25 cycle.....	20,000	46,356,900
Gatineau Power Co.—25 cycle.....	260,000	772,567,900
Ottawa Valley Power Co. ....	96,000	184,519,550
Beauharnois Light, Heat & Power Co.....	35,000	2,960,000
Canadian Niagara Power Co.—For D.P. & T. 66 cycle system.....	10,000	57,685,000
Campbellford Water & Light Commission*.....		366,200
Cedars Rapids Power Co.....	7,500	25,306,500
M. F. Beach Estate.....	500	911,700
Rideau Power Co.....	487	2,512,500
Ottawa & Hull Power & Mfg. Co.....	20,000	66,547,800
Gatineau Power Co.—60 cycle.....	30,000	92,747,000
Orillia Water, Light & Power Commission*.....		1,170
Abitibi Pulp & Paper Co.—Sturgeon Falls.....		24,935
Ontario Power Service Corporation.....	25,000	55,439,000
Total purchased.....	504,487	1,307,946,155
Total available capacity, generated and purchased, 1932.....	1,760,052	
“ “ “ “ “ “ 1931.....	1,575,152	
Increase.....	184,900	
Total kilowatt-hours, generated and purchased, 1932.....		4,208,473,182
“ “ “ “ “ “ 1931.....		4,537,514,814
Decrease.....		329,041,632

Of the increase in generated and purchased capacity shown above, amounting to 184,900 h.p., 137,000 h.p. became available on October 1, 1932, and hence was available for only one month of the fiscal year 1931-32.

\*Reciprocal arrangement for surplus power.

Company before its acquisition by the Commission, declined to the contract minimum, a decline, doubtless, due to the general business depression which has affected the sale of power in both the United States and Canada.

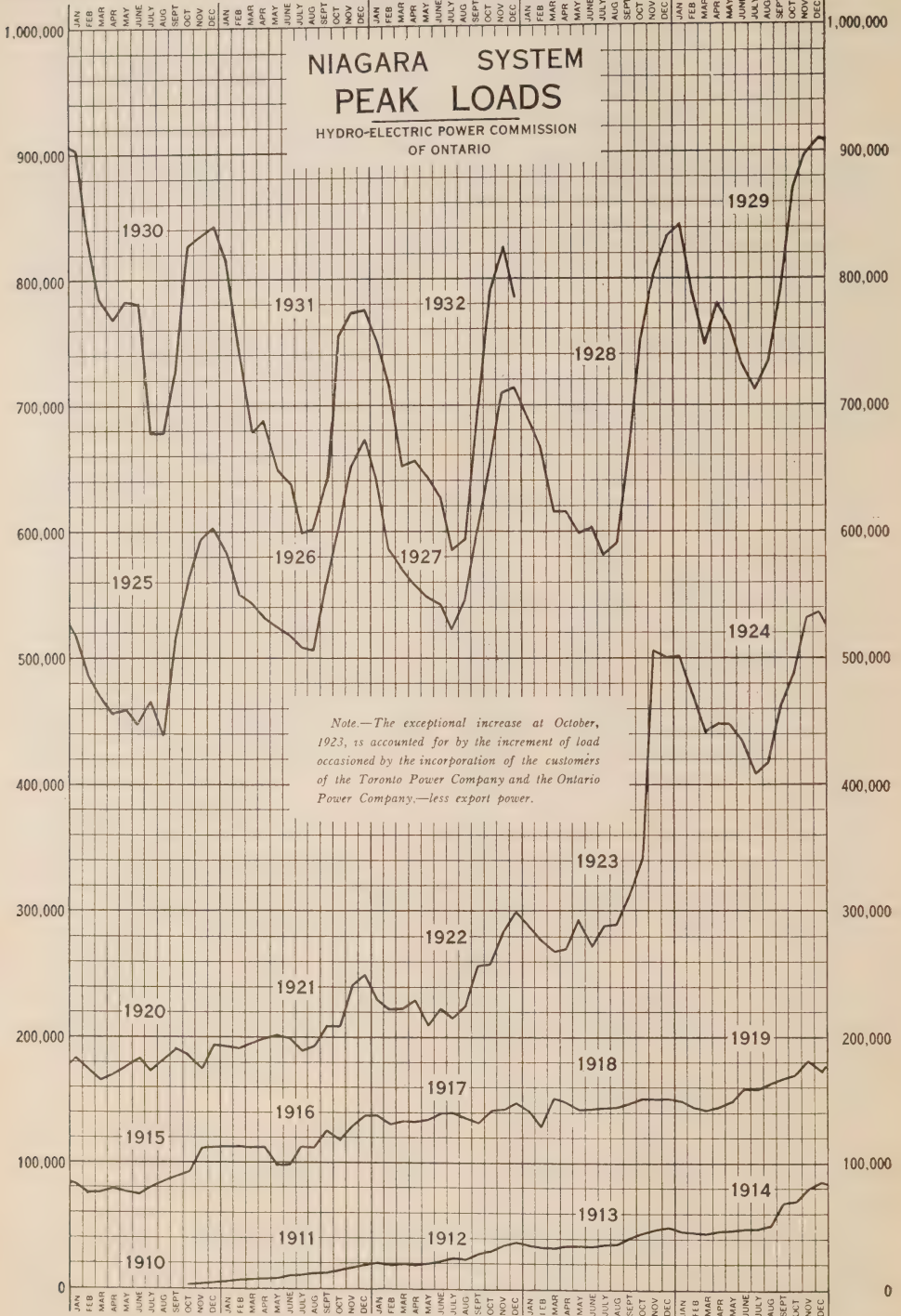
The table of power generated and purchased, given in this section of the Report, shows a decrease from the previous year's total of 329,000,000 kilowatt-hours. Of this 282,000,000 kilowatt-hours were due to the drop in the power exported, so that the total decrease in the energy used on the Commission's systems in Ontario last year, as compared with the preceding year, was less than 47,000,000 kilowatt-hours, or 1.2 per cent.

Load curves are given in this section of the Report showing the peak loads of each system, month by month, over a period of years. They give a clear picture of load conditions.

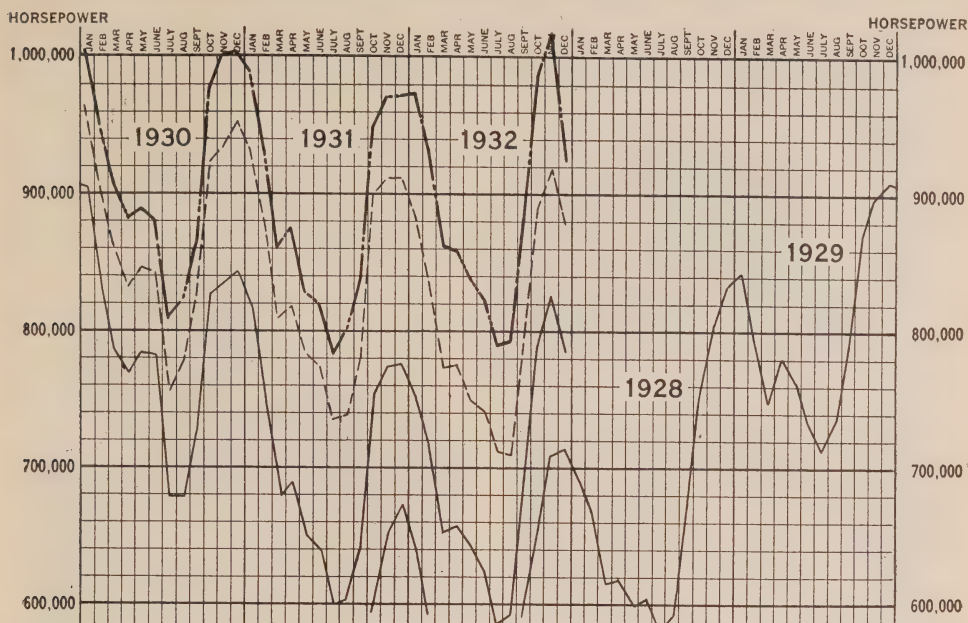
Load conditions on the Commission's systems in Ontario during the depression may be summed up as follows: In 1929, the load showed more than a normal year's increase. The beginning of the industrial depression—which is usually dated as from the stock-market crash of October, 1929—did not appear to affect the demand for power up to the end of that year. In the latter part of

HORSEPOWER

HORSEPOWER







SUPPLEMENTARY DIAGRAM—NIAGARA SYSTEM PEAK LOADS

## LEGEND

Canadian coincident peak loads delivered to system (not including export) as per graph on opposite page.....

Sum of:—Canadian coincident peak loads; contractual export; and power paid for but not taken by companies supplied direct by Commission.....

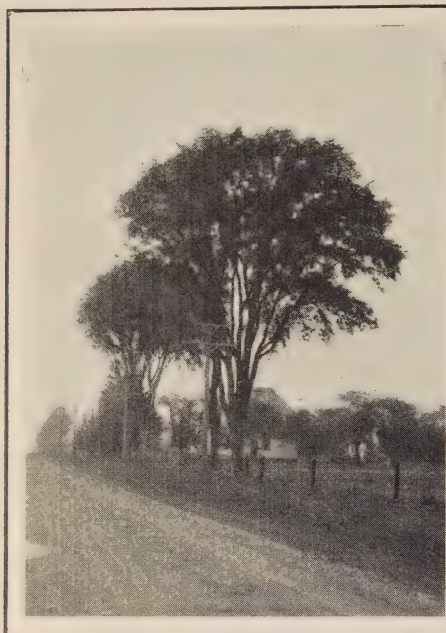
Sum of:—Canadian coincident peak loads; contractual export; and total contractual obligations to companies supplied by the Commission in excess of power actually taken by them.....

NOTE: In 1930, 1931 and 1932, certain companies supplied directly by the Commission did not avail themselves of the full amounts of power provided for in their contracts with the Commission, and consequently the "Niagara System Peak Loads" curve for these years falls substantially below the total of contractual obligations of the Commission to supply power in the Niagara system in these years. Also, the "Peak Load" diagram, as noted thereon, excludes contractual obligations for export of power. In order to indicate as closely as possible the total demands—including these contractual obligations—for which power had to be provided, the above diagram incorporates two additional curves.

The quantities here added are accurate in themselves. The actual peak loads, however, that would have resulted had the full contractual rights been exercised, might have been slightly greater or less than the quantities shown in the diagram, because such peak loads would be increased by line losses and reduced by possible diversity—factors which cannot be evaluated exactly.

1930, however, the effect of the depression was quite apparent in actual decreases in demand in industrial sections, and in the small increases in certain other sections, but the average load for the complete year still showed a slight increase above all previous years. In 1931, the load of industrial consumers continued at reduced levels throughout the year and brought the total load of the Commission in Ontario below the figures for 1930 and 1929, although it still remained above 1928. In the past year, 1932, the effect of the depression has apparently spread more widely over the Province, including the less-highly industrialized centres, and has caused a further reduction in the total load, but, including all industrial, municipal and rural loads, the decline during the year has been very slight, only 1.2 per cent, compared with the decline of 15 per cent during 1931.

If a comparison is made between the load during the past year (1932) and the load during the year preceding the start of the depression (1928), it will be



#### OPERATING DEPARTMENT—FORESTRY DIVISION

##### UNDER PRUNING

The structural growth of elm trees lends itself to this type of pruning, which removes all branches on road and field sides to a uniform height

##### CROWN PRUNING

Maple trees symmetrically shaped by twig pruning on all sides

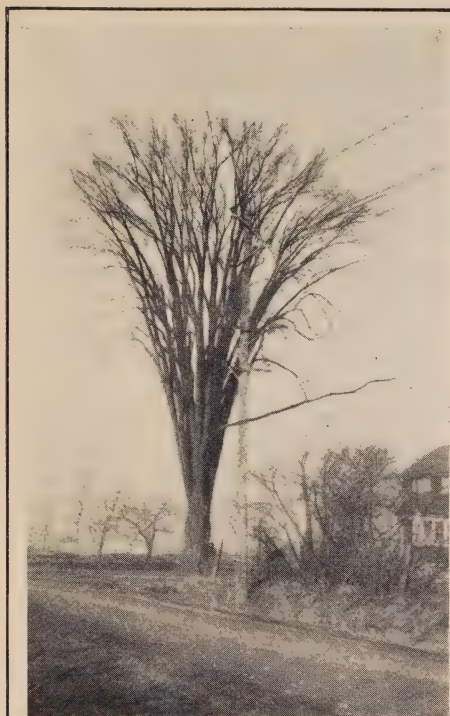
found that the total load in Ontario, on all the Commission's systems, shows an increase of about 10 per cent. Part of this increase over 1928 is due to expansion—to the inclusion of new districts such as the Dominion Power and Transmission system, Bruce county, Madawaska, Bala, Sudbury and Abitibi districts. However, the records show that there has been an actual increase in the remainder of the Commission's load in Ontario during the depression. The load in 1932, excluding these new properties, exceeded that of 1928 by more than 100,000,000 kilowatt-hours.

Thus there are certain hopeful features that may be noted in connection with the Commission's load. First, it is some encouragement to note that the loads during the period of depression have been so well maintained. A further encouraging feature is the arresting of the marked downward trend of the load in industrial areas, and the beginning of what may prove to be an upward trend. As already noted, the average load of all systems in Ontario declined only 1.2 per cent last year as compared with 15 per cent during the preceding year. Taking the closing months of last year, instead of the average for the complete year, records show that the total load for these months exceeded the load for the corresponding months of the previous year.

#### Forestry

The work done by the Forestry field staff during the preceding year met with a very favourable reception from property owners and public officials with whom the staff came in contact. The spirit of co-operation and friendliness has been gratifying, and encouraged an extension of this service to more general use in connection with the Commission's transmission lines.





#### OPERATING DEPARTMENT—FORESTRY DIVISION

##### BEYOND PRESERVATION

A split crotch followed by decay created a menace to lives and property. Beyond human effort to save, this magnificent old elm tree had to be removed

##### PRESERVED BY CABLING

Scientific cabling to prevent further splitting of the crotch has preserved this old monarch for many years and eliminated a hazard to traffic and Hydro service

In order to meet the increasing demand for scientific pruning of the vast number of trees along the lines of the Niagara and Georgian Bay systems, a number of graduates from the Faculty of Forestry in the University of Toronto were added to the staff.

The number of trees which were pruned, cabled or removed during the year totalled 46,584, an increase as compared with last year of more than eight thousand trees. The average cost per tree, including labour, travelling expenses, training and similar forestry overhead expense, cables, compound and other materials, came to \$1.85.

The slight increase in the average cost per tree is due to the fact that it has been found desirable to do more extensive work. This, however, will make a greater improvement in the physical conditions along the lines and reduce annual maintenance expenditures.

A systematic survey of the trees on Ontario highways along which the Commission's power and telephone lines extend, has disclosed hitherto unknown hazards to life, property and service, as shown in the reproduction of two photographs entitled "Beyond Preservation" and "Preserved by Cabling." Many similar specimens are still standing along our highways and lines, and could be saved if given attention in time.



Two distinctly different types of pruning are shown in the illustrations entitled "Under Pruning" and "Crown Pruning." Both of these methods provide adequate clearance for power conductors, and improve the trees and aesthetic conditions along the highways.

During the past year two important reforestation projects were undertaken in co-operation with the Ontario Forestry Branch. Approximately one hundred thousand coniferous trees were planted along the banks of the Queenston-Chippewa power canal and several thousand on the hillside behind the Eugenia generating station.

#### **Radio Communication**

The Commission's short-wave radio stations at Toronto, Cameron Falls and Ear Falls have been in service all year. There have been no changes in equipment and only routine maintenance has been required.

Communication schedules between Toronto and the other two stations have been maintained throughout the year. The service obtained from these stations, however, has not been as dependable as in previous years, there being several occasions when conditions, atmospheric and otherwise, have rendered communication impossible.

These stations are now operating under private commercial station licenses.

### **NIAGARA SYSTEM**

#### **Queenston Generating Station**

There were no failures of major equipment in the Queenston plant during the year. The usual systematic inspection and maintenance of all apparatus and parts were carried out. The larger maintenance jobs are noted below.

No. 1 generator and turbine were out of service from January 2 to February 17. During this period the turbine runner was removed for repairs and a spare runner installed in its place. Welding repairs were made to the Johnson valve seat and repairs made to the control valves. The generator windings were thoroughly cleaned and painted.

No. 4 unit, which as mentioned in the last Annual Report was shut down for overhaul towards the end of the previous year, was returned to service on December 13, 1931. Extensive repairs were made to the field-pole insulation, the windings were cleaned and painted, and repairs made to the turbine runner by welding.

No. 5 unit was out of service from April 19 to June 27 for inspection and repair. The governor was completely overhauled and re-aligned. Several of the insulating collars on the field windings were found broken and were replaced. Repairs by welding were made to the turbine runner.

No. 6 unit was out of service from March 14 to April 2. The rotor was removed and the generator windings given a thorough cleaning and painting. A complete overhaul and re-alignment of the governor were found necessary.

No. 8 unit was out of service from July 6 until October 28. Several field pole insulating collars were found broken; the rotor was completely dismantled, all field coils being removed and re-insulated with a new type of collar. The governor was re-aligned and several worn bushings replaced. The turbine runner required extensive repairs, which were made by welding. The turbine bronze journal was machined, and the lignum vitae bearing was re-blocked.

Periodic tests on meters and relays were made according to schedule.

### Ontario Power Plant

No serious failures of equipment were experienced in the operation of this plant during the year. All equipment and structures were regularly inspected and repairs or adjustments made where required, thus maintaining the plant in efficient condition.

The repairs to No. 10 unit, which were mentioned in the last Annual Report as being in progress at the close of the fiscal year, were completed and the unit returned to service on December 15.

To prevent rock dropping from the cliffs at the rear of the powerhouse, the loose rocks on the face of the cliff are being scaled off and a wall built to protect the power house. This work was still in progress at the end of the fiscal year.

While the usual routine of inspection and repair has been carried out there were few items of special note to report.

### Toronto Power Plant

This plant was operated at reduced loads, permitting the water to be used more efficiently in the newer plants.

Coils failed in generators Nos. 2, 3, 5 and 11, but repairs were made and the units put back into service.

Bearings on several generators and turbines were replaced or repaired, the gate mechanism on unit No. 7 was repaired, coils in the various generators were cleaned and painted and the usual routine of maintenance work was carried out.

At the Toronto Power transformer station, No. 3 transformer in bank No. 4 failed on July 1. Due to light load conditions this transformer was not required, and is still out of service.

The meters and relays in the Toronto Power transformer station, which were situated adjacent to their respective transformers or switches, were all moved to a switchboard on the second floor of the station.

### Chats Falls Plant—Ottawa River

At the conclusion of the previous fiscal year, as stated in the last Annual Report, there were only two units in operation in Chats Falls generating station, these units feeding through a single transformer bank and oil switch to a single circuit connecting Chats Falls and Leaside station. During the past year six more generators, three banks of 13,200/220,000-volt transformers, and eight 220,000-volt oil switches were placed in service, thereby completing the initial installation.

The enlargement of the river channel between Chats lake and Fishery pool was completed on November 3, 1931. Subsequently, the level of the forebay was raised in successive stages until a level of 243.5 was reached on Chats lake. The flow through the dam was then regulated to maintain this elevation in all cases, except during periods of high-river flow when the natural level of Chats lake would exceed 243.5 regardless of the amount of water passing through the dam. The motor-operated sluices in the dam, which were placed in operation on June 27, have aided materially in the regulation of these water levels. Telemetering gauges are being installed which will enable the operator to keep a close watch on water elevations at all times.

On August 31, 1932, construction work being practically complete, the work of finishing minor features was turned over to the Operating department.

### **DeCew Falls Generating Station**

This plant was in continuous operation throughout the year, no total interruption to output being experienced. Two hydraulic turbines were taken out of service for necessary repairs; on No. 3 turbine the thrust bearing was replaced and No. 4 turbine required packing and adjustment. Two of the exciters were equipped with new commutators. Six of the steel penstocks were scraped and painted. All necessary maintenance work was carried out to keep the plant in satisfactory operating condition.

### **Dominion Power Steam Station at Hamilton**

The steam plant was used as a standby for electric service and for the generation of steam for commercial purposes during the year. One turbo-generator set was operated as a synchronous condenser for voltage regulation during the greater part of the year, requiring power for its operation, which was supplied from DeCew Falls generating station.

### **Transmission**

The 220,000-volt lines between Toronto and the Ottawa river continued to operate satisfactorily, there being no line or equipment failures and no total interruptions involving all three circuits. Single-circuit outages occurred on three occasions due to lightning, and there was one double-circuit outage, apparently due to lightning affecting one circuit and faulty relay operation involving the second circuit.

On November 10, 1931, the 220,000-volt circuit between Pagan and Leaside, was connected in to the Chats Falls bus.

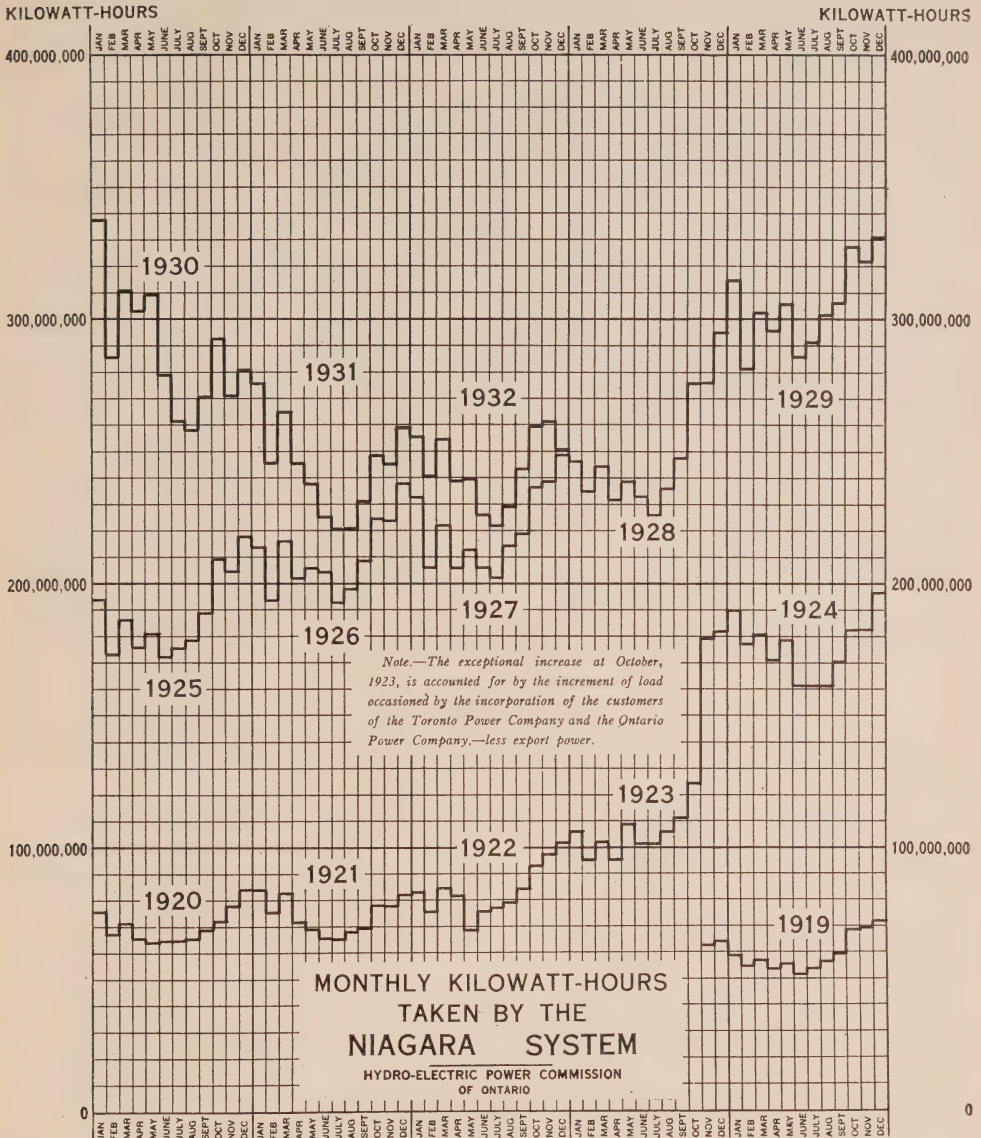
On October 20, 1932, a 220,000-volt circuit between Beauharnois and Chats Falls was placed in service.

Extensive cutting of the underbrush was carried out under the three circuits of the 220,000-volt line, the area covered by this work being equivalent to approximately 4,300 acres.

On the 110,000-volt transmission system there was no complete interruption, nor on the green or brown sub-systems, the operation of the latter being much better than during the previous year due to the improved relaying which has been put into service. On the yellow sub-system there were six interruptions totalling fifteen minutes, four of which were due to lightning, one to line trouble and one to station trouble.

On January 1, and 2, a very severe sleet storm occurred in the central portion of western Ontario, causing interruptions to the high-tension lines between Dundas and London and doing some damage to the low-tension lines in the same district, as well as in the neighbourhood of Sarnia. The only other storms which affected service to any extent occurred on the last few days in June and on July 1 when lightning caused some short interruptions but did not cause any severe damage to equipment.





On the 110,000-volt lines, in addition to the usual patrol, minor maintenance and repairs after storms, the following maintenance work was carried out:— On all the 110,000-volt lines west of Dundas and on one of the lines to Toronto, towers were inspected and bolts tightened. From St. Thomas to Essex the insulators were meggered and two modern units installed on each string to replace two of the older type. Several towers on one of the lines between Dundas and York were raised. Some cutting of underbrush was done between Niagara and Woodstock. Towers from Niagara to Welland, Niagara to Oxley, Dundas to Brant, Dundas to Guelph (partial), and Dundas to Toronto were painted. The footings of the towers on the section between Wiltshire and Bridgman

stations in Toronto, were cleaned and painted at and below the ground line. The ground wire was replaced on one tower line between Niagara Falls and Fonthill Junction.

Between Gages and Burlington the towers on the lake front, including the special four-circuit towers, were painted. Nearly all the original bolts in the latter were found to be badly rusted and were replaced.

Between St. Thomas and St. Clair transformer station the telephone circuit was retransposed and the old joints replaced with a new type.

On the Dominion Power lines there were no total interruptions during the year. The 40,000-volt lines to Hamilton district were totally interrupted on four occasions for an aggregate interval of four minutes. Five interruptions occurred at Bartonville switching station, totalling six minutes during the year. A prolonged interruption to Brantford service occurred January 1, and 2, when lines serving this area suffered during the severe sleet storm that visited the district.

The Dominion Power division lines were regularly patrolled, and defective insulators, crossarms and poles replaced where necessary. Service to Oakville and intermediate points from Hamilton, was diverted to a circuit carried on the steel towers originally erected by the Toronto Power Company, and the wooden-pole line abandoned, insuring greater continuity of service to Oakville. Two short stretches of wood-pole line were constructed connecting the stations in Oakville and Bronte with the steel-tower line.

### Transformation

At Kitchener high-tension transformer station three 5,000-kv-a. units replaced three transformers of 2,500-kv-a. capacity.

At Brant station emergency connections were installed, permitting the spare transformer being put into service without being moved from its pocket.

At St. Marys station three new low-tension oil breakers were put into service.

Twenty 5,000-kv-a. high-tension transformers had hand-operated tap changers installed in the field, and six of these were also rebuilt. In addition, twelve which had similar work done on them by the manufacturer, were returned to service. Seven 2,500-kv-a. units at Kent, and one at Guelph, were rebuilt in the field with a new type of secondary winding and had the tap changers added.

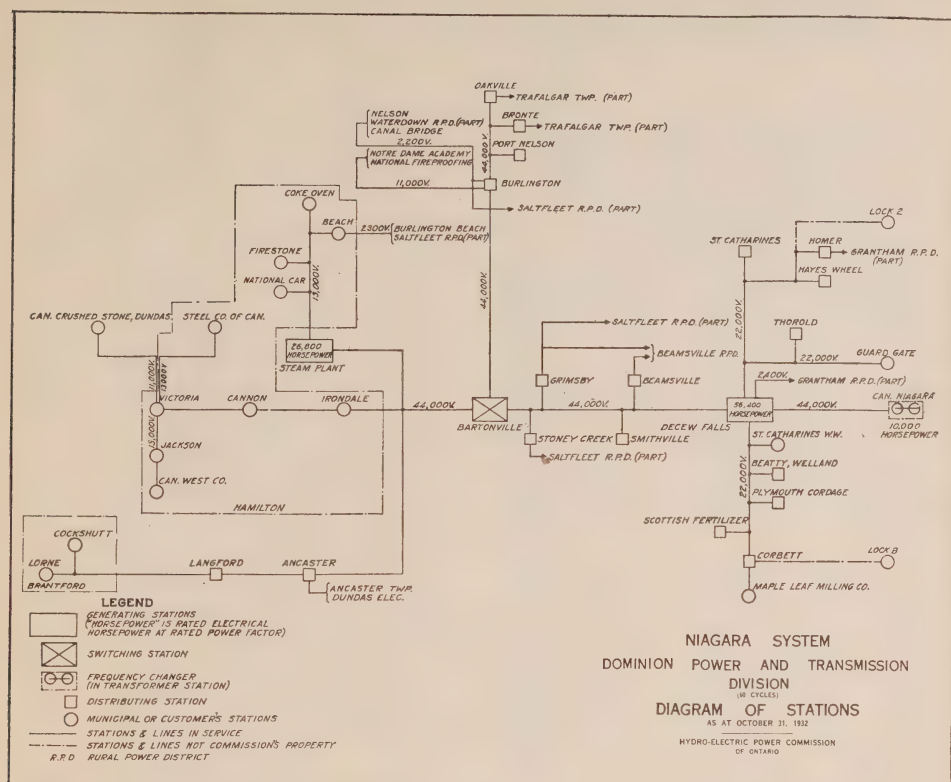
The 110,000-volt line circuit-breaker at St. Clair station was moved to St. Thomas station and installed on the St. Clair line, replacing an old-type circuit-breaker which had failed. A new low-tension transformer breaker was installed at St. Clair.

New guided-wave radio receivers were installed at Dundas, Strachan (Toronto), London, Essex, St. Thomas and Niagara stations.

The regular schedule of inspection and maintenance was carried out at all high-tension stations.

### Distribution

The following new low-tension transformer stations were put into service during the year:—West Hill, Trafalgar, Waterloo rural and Goderich rural. Transformer capacity was increased in Aurora, Exeter, Norwich, New Toronto and Islington stations.



There were thirteen failures of low-tension transformers, some of which were rebuilt by the Operating department maintenance men in the field, and the remainder were returned to the manufacturers for rebuilding.

A new station at Forest was put into service, following damage to the old station by fire, the transformers from the old station being used in the new station.

In the Dundas, Kitchener, Stratford and St. Marys districts the railway and wire crossings were made standard. In the Stratford, Brant, Kent and St. Clair districts the 26,000-volt lines were overhauled wholly or partially.

The lines between Stratford and Tavistock and between Watford Junction and Forest, were re-strung with A.C.S-R. wire. The circuits in the neighbourhood of Woodbridge and Stratford were rearranged.

A new 13,000-volt line between Danforth Junction and West Hill was placed in service.

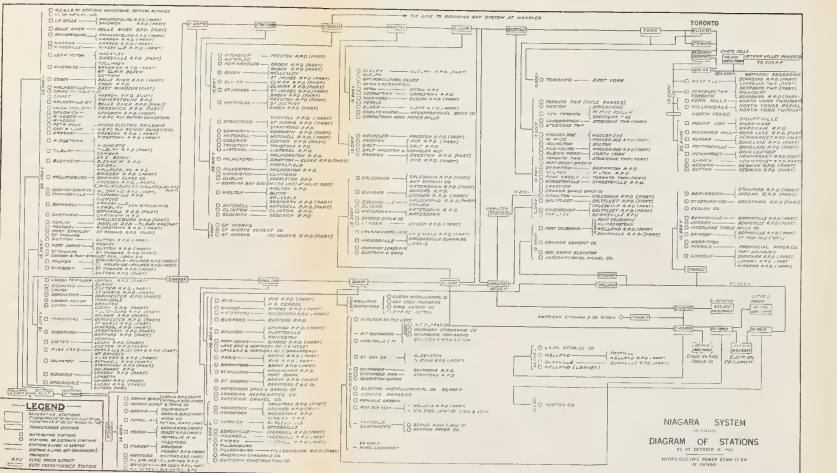
In the Dominion Power division a 1,000-kv-a. transformer failed during service in Cockshutt station, Brantford, and a 150-kv-a. transformer failed at the Scottish Fertilizer Co. station. These transformers were repaired and restored to service. One roof entrance bushing at Stoney Creek station, three condenser bushings at Bartonville switching station and one at Ancaster distributing station failed during service and were replaced. A set of lightning arresters was replaced at Burlington on the 40,000-volt line. Operation and maintenance of the two substations in Brantford was taken over by the Brantford Hydro-Electric System on June 1.



## NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1930-1931-1932

Municipality	Peak load in horsepower			Change in load 1931-1932	
	Oct. 1930	Oct. 1931	Oct. 1932	Decrease	Increase
Acton.....	778.7	681.7	787.6	.....	105.9
Agincourt.....	131.3	149.0	155.2	.....	6.2
Ailsa Craig.....	87.9	147.9	81.5	66.4	.....
Alvinston.....	88.2	94.2	87.9	6.3	.....
Amherstburg.....	600.5	714.5	661.6	52.9	.....
Ancaster Township.....	250.6	277.5	284.5	.....	7.0
Arkona.....	61.6	55.3	52.6	2.7	.....
Aurora.....	860.6	968.3	986.6	.....	18.3
Aylmer.....	529.5	490.6	513.4	.....	22.8
Ayr.....	172.2	207.6	161.1	46.5	.....
Baden.....	277.5	281.2	237.9	43.3	.....
Beachville.....	238.6	329.7	386.6	.....	56.9
Belle River.....	148.8	146.8	124.6	22.2	.....
Blenheim.....	386.0	379.3	369.9	9.4	.....
Blyth.....	85.8	93.5	101.4	.....	7.9
Bolton.....	118.4	131.7	118.8	12.9	.....
Bothwell.....	97.8	104.5	105.2	.....	0.7
Brampton.....	2,116.7	2,345.9	2,168.2	177.7	.....
Brantford*.....	9,343.2	9,129.9	11,637.9	.....	2,508.0
Brantford Township.....	542.5	530.8	505.1	25.7	.....
Bridgeport.....	104.0	130.2	108.4	21.8	.....
Brigden.....	86.0	83.3	88.4	.....	5.1
Brussels.....	136.7	134.4	132.1	2.3	.....
Burford.....	141.3	143.6	136.4	7.2	.....
Burgessville.....	56.3	55.2	57.1	.....	1.9
Caledonia.....	344.5	378.4	320.7	57.7	.....
Campbellville.....	28.1	27.3	26.2	1.1	.....
Cayuga.....	102.8	96.2	119.9	.....	23.7
Chatham.....	4,188.1	4,167.0	4,285.0	.....	118.0
Chippawa.....	270.8	261.4	218.0	43.4	.....
Clifford.....	64.3	63.0	58.1	4.9	.....
Clinton.....	415.0	462.4	408.8	53.6	.....
Comber.....	143.1	125.7	158.1	.....	32.4
Cottam.....	73.7	69.3	62.7	6.6	.....
Courtright.....	47.5	40.7	39.4	1.3	.....
Dashwood.....	69.3	69.3	65.9	3.4	.....
Delaware.....	38.8	37.6	41.5	.....	3.9
Dorchester.....	75.7	81.7	67.0	14.7	.....
Drayton.....	89.0	96.8	99.4	.....	2.6
Dresden.....	291.9	319.0	286.1	32.9	.....
Drumbo.....	53.6	64.2	67.7	.....	3.5
Dublin.....	45.5	48.6	34.2	14.4	.....
Dundas.....	1,447.7	1,280.1	1,138.0	142.1	.....
Dunnville.....	758.7	786.0	797.1	.....	11.1
Dutton.....	212.6	236.8	237.4	.....	0.6
East Windsor.....	3,072.4	2,761.4	2,450.4	311.0	.....
Elmira.....	760.8	777.5	646.1	131.4	.....
Elora.....	422.2	411.5	384.7	26.8	.....
Embro.....	81.4	98.5	83.8	14.7	.....
Erieau.....	60.3	61.6	70.7	.....	9.1
Erie Beach.....	16.7	11.1	8.0	3.1	.....
Essex.....	400.8	372.1	336.4	35.7	.....
Etobicoke Township.....	3,345.7	3,159.5	3,361.9	.....	202.4
Exeter.....	407.5	404.8	424.9	.....	20.1

\*D.P. &amp; T. load included in Brantford for 1932.







## NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1930-1931-1932—Continued

Municipality	Peak load in horsepower			Change in load 1931-1932	
	Oct. 1930	Oct. 1931	Oct. 1932	Decrease	Increase
Fergus.....	729.7	686.3	652.5	33.8	.....
Fonthill.....	126.7	163.6	138.5	25.1	.....
Forest.....	290.8	305.6	332.1	.....	26.5
Galt.....	6,854.3	6,301.6	6,071.1	230.5	.....
Georgetown.....	923.8	889.0	902.7	.....	13.7
Glencoe.....	159.5	173.2	170.8	2.4	.....
Goderich.....	1,068.7	983.4	970.5	12.9	.....
Granton.....	47.9	93.4	90.4	3.0	.....
Guelph.....	7,423.8	7,794.9	7,710.5	84.4	.....
Hagersville.....	1,136.7	943.7	1,046.9	.....	103.2
Hamilton.....	60,434.8	86,641.1	76,409.6	10,231.5	.....
Harriston.....	292.9	311.6	289.2	22.4	.....
Harrow.....	349.8	368.6	332.1	36.5	.....
Hensall.....	146.1	165.5	150.4	15.1	.....
Hespeler.....	1,453.1	1,831.4	1,864.9	.....	33.5
Highgate.....	73.3	59.9	61.6	.....	1.7
Humberstone.....	331.1	384.7	324.4	60.3	.....
Ingersoll.....	2,103.3	1,915.9	1,870.0	45.9	.....
Jarvis.....	172.9	179.9	178.7	1.2	.....
Kingsville.....	451.7	446.4	420.9	25.5	.....
Kitchener.....	16,315.3	15,834.7	14,874.6	960.1	.....
Lambeth.....	107.2	107.2	99.6	7.6	.....
LaSalle.....	237.5	241.3	211.5	29.8	.....
Leamington.....	1,042.9	1,065.9	1,112.6	.....	46.7
Listowel.....	855.2	865.3	906.1	.....	40.8
London.....	28,954.0	27,908.8	29,437.4	.....	1,528.6
London Township V.A.....	293.5	311.2	713.4	.....	60.2
Long Branch.....	.....	754.1	736.0	18.1	.....
Lucan.....	167.1	174.1	134.0	40.1	.....
Lynden.....	85.1	83.1	74.5	8.6	.....
Markham.....	205.0	238.6	249.3	.....	10.7
Merlin.....	174.2	91.8	94.7	.....	2.9
Merritton.....	2,603.2	2,281.5	2,737.3	.....	455.8
Milton.....	1,024.4	705.3	597.1	108.2	.....
Milverton.....	343.1	344.5	311.4	33.1	.....
Mimico.....	2,013.4	2,103.1	2,211.8	.....	108.7
Mimico Asylum.....	65.0	65.0	65.0	.....	.....
Mitchell.....	469.1	500.0	422.2	77.8	.....
Moorefield.....	30.8	48.2	58.2	.....	10.0
Mount Brydges.....	80.4	89.0	92.7	.....	3.7
Newbury.....	40.2	41.8	43.4	.....	1.6
New Hamburg.....	492.9	492.3	470.2	22.1	.....
Newmarket.....	1,069.7	1,340.5	1,380.7	.....	40.2
New Toronto.....	5,069.7	5,194.4	4,766.7	427.7	.....
Niagara Falls.....	9,864.6	9,351.2	8,774.0	577.2	.....
Niagara-on-the-Lake.....	575.1	536.2	548.8	.....	12.6
Norwich.....	321.7	331.7	335.1	.....	3.4
Oil Springs.....	182.4	156.9	172.7	.....	15.8
Ontario Agricultural College.....	320.3	401.6	427.6	.....	26.0
Ontario Central Reformatory.....	229.2	282.8	249.3	33.5	.....
Otterville.....	68.0	83.6	77.7	5.9	.....

# NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1930-1931-1932—Continued

Municipality	Peak load in horsepower			Change in load 1931-1932	
	Oct. 1930	Oct. 1931	Oct. 1932	Decrease	Increase
Palmerston.....	444.9	518.9	458.5	60.4	.....
Paris.....	1,305.8	1,242.0	1,178.4	63.6	.....
Parkhill.....	150.1	140.7	131.3	9.4	.....
Petrolia.....	794.4	731.4	761.7	.....	30.3
Plattsville.....	49.6	60.8	53.3	7.5	.....
Point Edward.....	664.9	267.4	689.0	.....	421.6
Port Colborne.....	1,595.2	1,608.6	1,407.5	201.1	.....
Port Credit.....	591.1	537.5	549.3	.....	11.8
Port Dalhousie.....	423.6	457.1	439.7	17.4	.....
Port Dover.....	296.9	315.2	315.6	.....	0.4
Port Rowan.....	74.4	74.2	73.0	1.2	.....
Port Stanley.....	218.5	220.9	228.5	.....	7.6
Preston.....	3,341.8	3,128.6	2,560.3	568.3	.....
Princeton.....	80.4	101.3	103.2	.....	1.9
Queenston.....	83.1	87.1	83.5	3.6	.....
Richmond Hill.....	257.9	317.3	297.0	20.3	.....
Ridgetown.....	461.1	416.9	439.7	.....	22.8
Riverside.....	1,238.3	1,212.7	1,200.6	12.1	.....
Rockwood.....	107.2	104.5	104.5	.....	.....
Rodney.....	139.8	145.6	145.7	.....	0.1
St. Catharines.....	8,999.2	8,449.7	7,872.8	576.9	.....
St. Clair Beach.....	80.4	97.6	90.7	6.9	.....
St. George.....	134.0	92.5	147.4	.....	54.9
St. Jacobs.....	246.5	140.2	152.8	.....	12.6
St. Marys.....	1,402.1	1,521.9	1,501.8	20.1	.....
St. Thomas.....	5,624.6	5,643.4	5,761.4	.....	118.0
Sarnia.....	6,950.3	6,801.6	7,360.6	.....	559.0
Sandwich.....	3,861.4	3,459.3	2,996.4	462.9	.....
Scarboro Township.....	2,788.2	3,034.8	3,124.6	.....	89.8
Seaforth.....	466.1	510.9	465.3	45.6	.....
Simcoe.....	1,365.1	1,491.1	1,546.1	.....	55.0
Springfield.....	85.1	52.9	65.6	.....	12.7
Stamford Township.....	1,843.2	1,831.1	1,859.8	.....	28.7
Stouffville.....	155.5	194.7	204.1	.....	9.4
Stratford.....	7,760.5	7,790.6	7,180.2	610.4	.....
Strathroy.....	907.3	1,000.0	910.2	89.8	.....
Sutton.....	144.4	150.4	152.7	.....	2.3
Tavistock.....	431.6	523.6	496.0	27.6	.....
Tecumseh.....	438.3	443.8	302.2	141.6	.....
Thamesford.....	153.5	154.1	158.8	.....	4.7
Thamesville.....	197.8	178.3	171.0	7.3	.....
Thedford.....	52.5	60.8	57.6	3.2	.....
Thorndale.....	40.2	46.1	40.6	5.5	.....
Thorold.....	2,170.9	1,941.7	1,956.4	.....	14.7
Tilbury.....	502.7	321.7	366.6	.....	44.9
Tillsonburg.....	811.0	884.7	891.0	.....	6.3
Toronto.....	280,280.0	289,262.7	280,795.0	8,467.7	.....
Toronto Township.....	1,612.3	1,668.1	1,868.0	.....	199.9
Walkerville.....	8,256.0	6,348.5	5,454.7	893.8	.....
Wallaceburg.....	1,808.3	1,059.0	1,252.0	.....	193.0
Wardsville.....	32.1	38.0	35.4	2.6	.....
Waterdown.....	246.0	231.9	191.7	40.2	.....
Waterford.....	371.3	380.0	406.8	.....	26.8
Waterloo.....	2,814.7	2,946.2	2,660.8	285.4	.....

## NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1930-1931-1932—Continued

Municipality	Peak load in horsepower			Change in load 1931-1932	
	Oct. 1930	Oct. 1931	Oct. 1932	Decrease	Increase
Watford.....	167.5	200.4	186.3	14.1	
Welland.....	3,848.5	3,967.8	3,576.4	391.4	
Wellesley.....	126.6	142.7	97.7	45.0	
West Lorne.....	273.4	97.8	105.9		8.1
Weston.....	3,150.1	2,619.2	2,453.1	166.1	
Wheatley.....	142.0	155.7	143.1	12.6	
Windsor.....	28,087.8	25,431.8	23,029.9	2,401.9	
Woodbridge.....	288.2	293.5	247.9	45.6	
Woodstock.....	4,879.3	4,781.5	4,785.5		4.0
Wyoming.....	61.0	60.3	64.6		4.3
York, East, Township.....	4,788.2	5,138.0	5,504.0		366.0
York, North, Township.....	2,143.4	2,757.4	2,829.7		72.3
Zurich.....	92.5	85.9	76.4	9.5	

## NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1930-1931-1932

Rural power district	Peak load in horsepower			Change in load 1931-1932	
	Oct. 1930	Oct. 1931	Oct. 1932	Decrease	Increase
Acton.....	2.0	10.0	10.0		
Ailsa Craig.....	0.8	5.6	5.6		
Alvinston.....	1.6	3.2	3.2		
Amherstburg.....	525.2	518.8	533.7		14.9
Aylmer.....	245.3	304.8	294.4	10.4	
Ayr.....	24.5	32.0	42.5		10.5
Baden.....	253.7	293.0	398.6		105.6
Beamsville.....	915.5	1,072.2	1,061.1	11.1	
Belle River.....	263.2	269.9	254.9	15.0	
Blenheim.....	123.1	153.5	143.6	9.9	
Bond Lake.....	715.3	840.7	897.2		56.5
Bothwell.....	124.5	102.9	115.6		12.9
Brampton.....	119.2	127.3	133.3		6.0
Brant.....	451.6	565.2	464.9	100.3	
Brigden.....	33.2	35.7	38.0		2.3
Burford.....	105.9	145.3	155.9		10.6
Caledonia.....	209.2	205.5	322.0		116.5
Chatham.....	470.1	434.0	441.3		7.3
Chippawa.....	120.6	109.9	102.2	7.7	
Clinton.....	90.1	124.6	125.2		0.6
Delaware.....	247.4	297.2	265.3	31.9	
Dorchester.....	321.4	335.9	329.4	6.5	
Dresden.....	10.0	28.5	34.6		6.1
Drumbo.....	85.9	64.6	79.2		14.6
Dundas.....	355.6	552.3	578.3		26.0
Dunnville.....	4.0	29.0	42.0		13.0
Dutton.....	100.0	115.7	122.8		7.1



## NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1930-1931-1932—Continued

Rural power district	Peak load in horsepower			Change in load 1931-1932	
	Oct., 1930	Oct., 1931	Oct., 1932	Decrease	Increase
Elmira.....	40.8	72.7	79.6		6.9
Elora.....	84.0	139.8	105.7	34.1	
Essex.....	209.5	213.9	201.0	12.9	
Exeter.....	194.4	217.6	245.5		27.9
Forest.....	16.3	28.0	28.0		
Galt.....	154.7	179.6	197.9		18.3
Georgetown.....	123.1	132.4	134.8		2.4
Goderich.....	65.0	71.5	84.0		12.5
Grantham Township.....	479.6	643.2	527.1	116.1	
Guelph.....	348.5	392.1	415.5		23.4
Haldimand.....	228.2	193.2	240.0		46.8
Harriston.....	4.8	22.1	23.9		1.8
Harrow.....	349.8	399.4	345.1	54.3	
Ingersoll.....	303.2	370.6	329.8	40.8	
Jordan.....	294.6	200.0	320.0		120.0
Keswick.....	209.5	291.1	381.6		90.5
Kingsville.....	545.3	526.6	545.8		19.2
Listowel.....	96.5	113.9	131.9		18.0
London.....	1,420.3	1,451.8	1,509.0		57.2
Lucan.....	66.5	65.3	64.6	0.7	
Lynden.....	143.0	160.0	177.2		17.2
Markham.....	296.2	387.7	453.0		65.3
Merlin.....	144.7	157.5	175.2		17.7
Milton.....	99.8	124.8	128.2		3.4
Milverton.....	45.5	74.5	69.5	5.0	
Mitchell.....	161.0	190.4	187.8	2.6	
Newmarket.....	213.8	290.3	255.7	34.6	
Niagara.....	504.5	598.9	434.5	164.4	
Norwich.....	202.0	207.7	202.3	5.4	
Oil Springs.....	37.1	45.5	44.9	0.6	
Palmerston.....	4.0	31.5	37.5		6.0
Petrolia.....	27.0	25.3	25.3		
Preston.....	770.4	848.1	848.2		0.1
Ridgetown.....	328.7	284.2	260.8	23.4	
St. Jacobs.....	238.7	241.9	218.5	23.4	
St. Marys.....	185.7	243.6	210.4	33.2	
St. Thomas.....	460.6	465.0	469.3		4.3
Saltfleet.....	663.8	1,114.6	1,029.9	84.7	
Sandwich.....	1,060.9	1,008.3	1,001.9	6.4	
Sarnia.....	427.7	491.1	466.4	24.7	
Scarborough.....	285.5	315.0	296.6	18.4	
Seaforth.....	36.5	46.3	47.8		1.5
Simcoe.....	155.5	175.0	231.0		56.0
Stamford.....	174.9	193.0	185.1	7.9	
Stratford.....	167.8	176.1	164.9	11.2	
Strathroy.....	37.2	96.6	95.0	1.6	
Streetsville.....	342.5	376.2	324.3	51.9	

**NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1930-1931-1932—Continued**

Rural power district	Peak load in horsepower			Change in load 1931-1932	
	Oct., 1930	Oct., 1931	Oct., 1932	Decrease	Increase
Tavistock.....	141.1	165.7	194.4	.....	28.7
Thamesville.....	97.7	105.9	100.9	5.0	.....
Tilbury.....	67.3	78.1	119.4	.....	41.3
Tillsonburg.....	279.9	321.3	302.4	18.9	.....
Wallaceburg.....	114.7	180.5	179.8	0.7	.....
Walsingham.....	76.8	128.7	150.8	.....	22.1
Walton.....	66.7	84.5	70.7	13.8	.....
Waterdown.....	491.2	830.5	906.5	.....	76.0
Waterford.....	119.0	129.2	158.2	.....	29.0
Watford.....	11.5	17.6	16.4	1.2	.....
Welland.....	1,095.2	1,115.3	1,161.8	.....	46.5
Woodbridge.....	538.3	561.9	550.0	11.9	.....
Woodstock.....	501.1	480.6	487.4	.....	6.8

**GEORGIAN BAY SYSTEM**

The Georgian Bay system peak and average loads both show an increase over last year. As this was a good water year there was a surplus of water at all plants, and ample capacity was available for supplying the additional power demand.

In addition to the routine inspection and maintenance of all transmission lines, special attention was given to certain sections. In Eugenia district the defective insulators and crossarms were removed on the lines from Eugenia power house to Owen Sound, from Eugenia plant to Flesherton, from Flesherton to Dundalk, from Grand Valley tap to Grand Valley and from Meaford tap to Meaford. Additional storm guys were erected on lines from Durham to Mount Forest, from Flesherton to Priceville and from Dundalk to Shelburne. On this latter section, 375 decayed pole butts were cut off and the poles lowered. A large number of poles were stubbed on the sections between Durham and Mount Forest and between Hanover and Elmwood. In the Severn district defective crossarms and insulators were removed on the lines south of Barrie and on the old lines between Waubaushene and Midland. On the tie line between South Falls powerhouse and Waubaushene the insulators were tested and defective units removed. On the older lines in the Severn and Wasdells districts obsolete ground cable clamps were replaced with new type clamps.

Co-operation was given to the Bell Telephone Company in its studies and tests in connection with inductive co-ordination. Twenty-six poles were removed to the opposite side of the road, west of Waverley, to avoid conflict with the Bell Telephone Company circuits when the road was widened, and at several other points on the system it was necessary to move poles owing to changes in highway locations.

During a severe sleet storm in the Durham district on January 1, eighteen poles failed on the section between Durham and Mount Forest, interrupting service to Holstein and Mount Forest. Temporary repairs were made and power restored January 2. This was the only major line break during the year.

At Big Chute plant a septic tank and a disposal bed were installed.

At Stayner distributing station a bell alarm system was installed to indicate the automatic operation of oil circuit breakers on the Creemore, Wasaga Beach and Stayner feeders.

At Port McNicoll distributing station the transformer capacity was increased from 75 kv-a. to 150 kv-a.

At Eugenia Falls powerhouse the No. 2 turbine and Johnson valve were completely overhauled. The turbine runner and gates were shipped to the Commission's machine shop at Niagara Falls where the runner was machined, all holes in runner buckets were welded and then ground, new steel cheek plates and new seal rings made, and all gates welded and machined. The turbine shaft was machined smooth where it had become worn at the main gland, and a bronze ring was installed on the end of the gland to accommodate the smaller diameter of the shaft. This latter portion of the work was done at Eugenia powerhouse. The Johnson valve was shipped to a machine shop at Owen Sound where the eroded spots on the float were welded, the valve body was bored out and the body of the float machined. New monel metal rings were made for the valve body and the bottom of the float and welded to the cast-steel bodies electrically, then machined to size.

At Eugenia plant the exteriors of all cottages and outbuildings were painted.

At Hanover frequency changer station a bank of four 500-kv-a., 4,600/2,400-volt, 60-cycle transformers was installed to supply 4,000-volt, three-phase service to Hanover distributing station. This station was formerly supplied at 22,000 volts and the voltage stepped down through a 750-kv-a. transformer. This transformer was removed and changes made at Hanover distributing station to accommodate the 4,000-volt feeder from Hanover frequency changer station which was strung on the 22,000-volt transmission line poles. This change was considered advisable as Hanover load had increased beyond the capacity of the 750-kv-a. transformer.

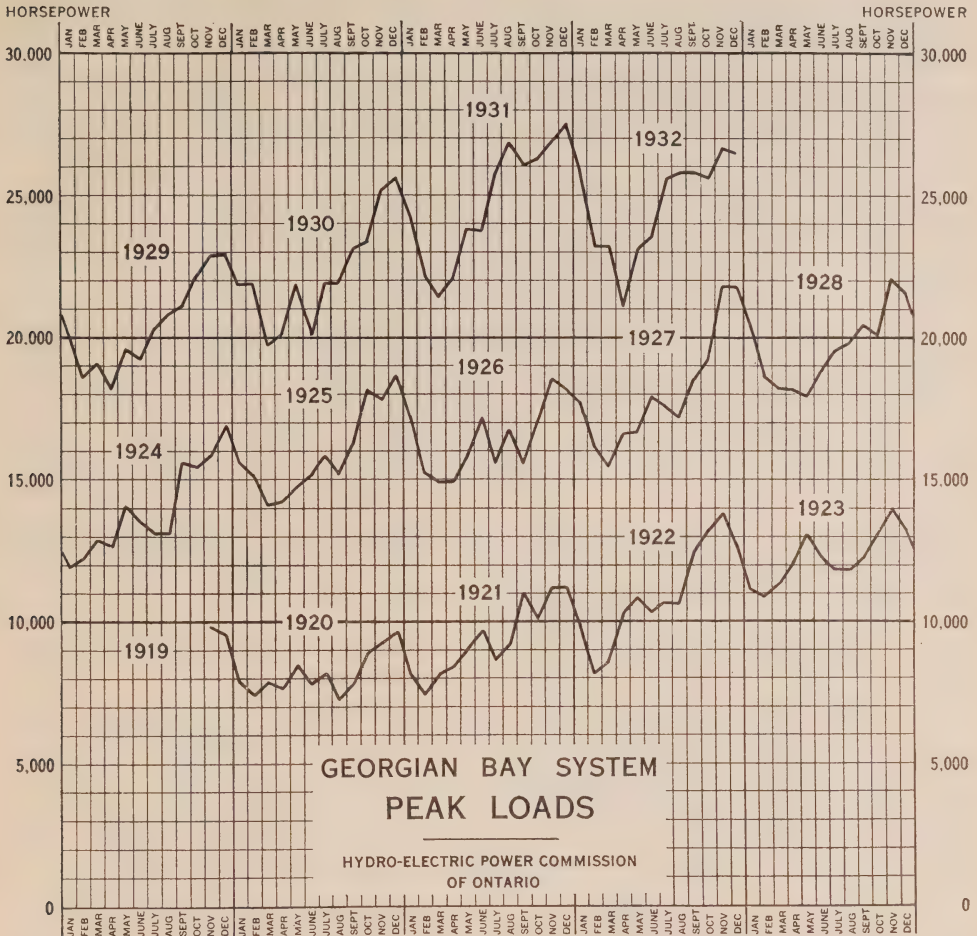
At Walkerton power house various changes and betterments were carried out which necessitated the plant being out of service from October 31, 1931, to January 24, 1932. These changes involved the rearrangement of switchboard and switchboard wiring to provide greater safety, also the installation of additional meters. At this plant the defective timber in the headgates, and in the supports for the headgate operating mechanism, were replaced, and the exciter turbine was completely overhauled.

At Hanover power house the turbines were overhauled.

Southampton power house was shut down on March 18, as its capacity was not required owing to the good water conditions general throughout the system.

At Walkerton power house a new distributing station of 225-kv-a. capacity was erected, to be known as Walkerton rural distributing station, for the supply of 4,000-volt, three-phase power to Mildmay, Formosa, and rural lines. This station was completed January 24, 1932.





**NOTE:**—The Georgian Bay system includes the Severn, Eugenia, Wasdells, Muskoka and Bala districts. In the diagram the load for the Muskoka, district is not included until November, 1924. Details respecting this load for preceeding years are given in earlier Annual Reports. The load of the new district at Bala is not included in above graph until April, 1931, previous meter records being incomplete.

The 2,200-volt line from Walkerton powerhouse to Mildmay was rebuilt for operation at 4,000 volts, and will ultimately be connected to the Walkerton rural distributing station, but at present is connected to the Walkerton power house 2,200-volt bus.

Berkeley distributing station, of 50-kv-a. capacity, was erected and placed in service November 26, 1931, to serve part of Markdale rural power district.

At Hepworth distributing station the two 50-kv-a. transformers were removed for shipment to Callander and were replaced with one 100-kv-a. transformer.

At Orangeville distributing station the transformer capacity was increased from 450 kv-a. to 750 kv-a. and a new outdoor station structure was erected.

At Elmwood distributing station the transformer capacity was increased from 50 kv-a. to 75 kv-a.

At Durham distributing station the three 100-kv-a. transformers were overhauled, cleaned and new oil added.

At Mount Forest frequency-changer station three 300-kv-a., 60-cycle transformers were shipped to the manufacturer's factory and were rewound with new type windings as the insulation on the old windings had shown signs of disintegration.

At Hanover frequency-changer station one 750-kv-a., 25-cycle, 13,200/63,500-volt transformer failed, due to lightning, and was shipped to the Commission's Davenport station in Toronto where repairs were made. This was the only transformer failure on the Georgian Bay system during the year.

At Wasdells power house the turbines were inspected and found to be in good condition. The guide bearing on No. 2 generator was found badly worn on one side and was rebabbitted.

At Wasdells rural distributing station the transformer capacity was increased from 112.5 kv-a. to 225 kv-a. This station serves the Sparrow Lake rural power district.

At Bala No. 1 power house a new transformer structure was erected for the step-up transformers on the McTier and Port Carling feeders. This structure was not quite completed at the end of this fiscal year.

At Bala No. 1 power house the turbines were completely overhauled and all worn parts replaced.

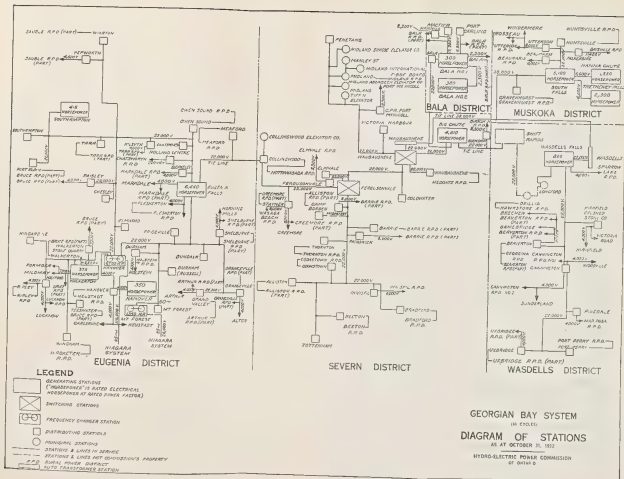
At South Falls generating station some repair work to the main dam was required where the action of the water had undermined the concrete apron on the downstream side. Further office space was provided by the construction of a small office on the intermediate gallery between the generator floor and high-tension switching gallery. Only minor mechanical repairs to generator and turbine units were required. Station grounding was tested and improved.

At Hanna Chute generating station a large amount of mechanical maintenance work on the turbine was required owing to the development of friction between gates and regulating ring and between gates and discharge ring. A gear-type oil pump was installed on the unit to replace the unsatisfactory rotary-disc type. The lignum-vitae turbine bearing was relined and adjusted. Provision was made for lubricating the bearing surfaces between all gate bushings and gate pins. The log slide at this station was lengthened and adjusted to prevent damage to logs when leaving the slide.

At Trethewey Falls generating station the steel draft tube was scraped and painted with red lead as a protective measure. Only minor adjustments to the turbine were required. Heaters for keeping generator bearing and governor oil warm during periods of shut down in cold weather were installed.

Grounding conditions at all stations on the Muskoka district were tested and improvements where necessary are now being undertaken.

A new outdoor distributing station at Falkenburg, approximately 2.5 miles north of Bracebridge was placed in service on July 1. By means of three 100-kv-a. transformers, power received at 22,000 volts from the line between South Falls and Huntsville is stepped down to 11,400-volts to supply the hamlets of Dorset, Norway Point and Baysville, and the surrounding rural district.







## GEORGIAN BAY SYSTEM—LOADS OF MUNICIPALITIES, 1930-1931-1932

Municipality	Peak load in horsepower			Change in load 1931-1932	
	Oct. 1930	Oct. 1931	Oct. 1932	Decrease	Increase
Alliston.....	221.9	199.6	227.9	.....	28.3
Arthur.....	121.1	130.7	128.9	1.8	.....
Bala.....	.....	121.0	118.0	3.0	.....
Barrie.....	2,285.6	2,503.4	2,381.1	122.3	.....
Beaverton.....	269.4	295.6	216.4	79.2	.....
Beeton.....	119.8	134.7	106.6	28.1	.....
Bradford.....	135.3	138.2	134.9	3.3	.....
Brechin.....	52.0	59.0	56.3	2.7	.....
Camp Borden.....	321.7	290.0	320.0	.....	30.0
Cannington.....	172.9	155.5	161.9	.....	6.4
Carlsruhe and Neustadt.....	41.5	33.5	30.0	3.5	.....
Chatsworth.....	52.2	51.7	53.2	.....	1.5
Chesley.....	428.9	406.9	407.5	.....	0.6
Coldwater.....	277.5	290.9	257.3	33.6	.....
Collingwood.....	1,506.8	1,458.3	1,339.9	118.4	.....
Cookstown.....	63.5	52.5	59.0	.....	6.5
Creemore.....	101.9	107.2	121.4	.....	14.2
Dundalk.....	140.7	145.1	148.8	.....	3.7
Durham.....	601.9	627.3	392.1	235.2	.....
Elmvale.....	160.8	145.4	147.4	.....	2.0
Elmwood.....	52.2	63.8	65.1	.....	1.3
Flesherton.....	101.6	87.0	79.8	7.2	.....
Formosa.....	.....	45.0	41.8	3.2	.....
Grand Valley.....	99.2	121.1	123.8	.....	2.7
Gravenhurst.....	553.0	622.0	574.0	48.0	.....
Hanover.....	1,136.7	1,002.7	1,042.9	.....	40.2
Hepworth.....	.....	24.1	24.1	.....	.....
Holstein.....	17.0	20.9	18.7	2.2	.....
Hornings Mills.....	8.0	8.0	8.0	.....	.....
Huntsville.....	963.8	1,023.5	1,047.0	.....	23.5
Kincardine.....	449.0	434.8	407.5	27.3	.....
Kirkfield.....	35.1	31.0	28.6	2.4	.....
Lucknow.....	229.2	222.5	187.0	35.5	.....
Markdale.....	139.9	163.3	149.4	13.9	.....
McTier.....	.....	148.0	145.0	3.0	.....
Meaford.....	368.6	431.6	394.7	36.9	.....
Midland.....	3,115.2	2,723.7	3,345.6	.....	621.9
Mildmay.....	.....	63.1	66.7	.....	3.6
Mount Forest.....	384.7	358.4	328.4	30.0	.....
Orangeville.....	576.0	550.3	621.0	.....	70.7
Owen Sound.....	3,183.6	3,202.4	3,338.5	.....	136.1
Paisley.....	138.0	113.1	114.4	.....	1.3
Penetanguishene.....	605.9	552.3	561.1	.....	8.8
Port Carling.....	.....	126.0	128.0	.....	2.0
Port Elgin.....	.....	195.0	201.8	.....	6.1
Port McNicoll.....	88.4	99.0	90.2	8.8	.....
Port Perry.....	240.4	211.9	179.8	32.1	.....
Priceville.....	15.4	15.7	16.0	.....	0.3
Ripley.....	55.6	55.4	58.9	.....	3.5
Rosseau.....	.....	30.0	35.1	.....	5.1

## GEORGIAN BAY SYSTEM—LOADS OF MUNICIPALITIES, 1930-1931-1932—Continued

Municipality	Peak load in horsepower			Change in load 1931-1932	
	Oct. 1930	Oct. 1931	Oct. 1932	Decrease	Increase
Shelburne.....	233.7	235.8	197.9	37.9	.....
Southampton.....	.....	233.2	235.9	.....	2.7
Stayner.....	140.8	193.7	203.2	.....	9.5
Sunderland.....	63.0	59.0	63.0	.....	4.0
Tara.....	72.7	84.1	87.7	.....	3.6
Teeswater.....	116.0	134.8	114.9	19.9	.....
Thornton.....	23.6	23.4	18.3	5.1	.....
Tottenham.....	76.8	55.7	64.3	.....	8.6
Uxbridge.....	180.9	199.8	205.8	.....	6.0
Victoria Harbour.....	71.0	64.3	76.4	.....	12.1
Victoria Road.....	11.4	10.3	10.0	0.3	.....
Walkerton.....	.....	492.2	419.9	72.3	.....
Waubashene.....	40.9	52.9	58.3	.....	5.4
Warton.....	.....	238.3	220.1	18.2	.....
Windermere.....	26.8	25.0	31.0	.....	6.0
Wingham.....	392.2	304.6	209.3	95.3	.....
Woodville.....	55.0	65.1	61.0	4.1	.....

Note:—Muskoka Township has been transferred to Gravenhurst R.P.D.

## GEORGIAN BAY SYSTEM—RURAL POWER DISTRICT LOADS, 1930-1931-1932

Rural power district	Peak load in horsepower			Change in load 1931-1932	
	Oct. 1930	Oct. 1931	Oct. 1932	Decrease	Increase
Alliston.....	74.2	92.2	107.1	.....	14.9
Arthur.....	1.2	3.2	3.2	.....	.....
Bala.....	.....	56.0	61.0	.....	5.0
Barrie.....	159.3	196.3	220.7	.....	24.4
Beaumaris.....	87.1	83.1	85.8	.....	2.7
Beaverton.....	1.0	5.0	113.3	.....	108.3
Bradford.....	5.4	20.0	46.7	.....	26.7
Bruce.....	.....	50.3	61.1	.....	10.8
Buckskin.....	17.7	12.0	13.0	.....	1.0
Cannington No. 1.....	19.0	18.0	18.0	.....	.....
Cannington No. 2.....	21.7	23.5	26.0	.....	2.5
Chatsworth.....	11.4	9.8	10.3	.....	0.5
Cookstown.....	.....	0.8	0.8	.....	.....
Creemore.....	.....	20.1	56.2	.....	36.1
Elmvale.....	46.2	63.2	72.4	.....	9.2
Flesherton.....	5.7	5.5	7.3	.....	1.8
Georgia.....	36.2	42.2	44.0	.....	1.8
Gravenhurst.....	20.7	32.1	37.2	.....	5.1
Hawkestone.....	45.1	56.3	84.1	.....	27.8
Huntsville.....	.....	14.0	20.0	.....	6.0



**GEORGIAN BAY SYSTEM—RURAL POWER DISTRICT LOADS, 1930-1931-1932**  
—Continued

Rural power districts	Peak load in horsepower			Change in load 1931-1932	
	Oct. 1930	Oct. 1931	Oct. 1932	Decrease	Increase
Innisfil.....	65.0	135.4	162.2	.....	26.8
Mariposa.....	131.3	151.4	151.4	.....	.....
Markdale.....	1.6	2.0	20.9	.....	18.9
Medonte.....	2.0	11.0	17.0	.....	6.0
Midland.....	.....	14.0	19.0	.....	5.0
Nottawasaga.....	32.1	29.6	30.3	.....	0.7
Orangeville.....	27.8	35.5	33.1	2.4	.....
Owen Sound.....	.....	8.0	10.0	.....	2.0
Port Perry.....	78.6	103.1	121.8	.....	18.7
Ripley.....	.....	10.0	10.0	.....	.....
Sauble.....	.....	8.0	8.8	.....	0.8
Shelburne.....	4.9	9.6	21.1	.....	11.5
Sparrow Lake.....	67.0	98.4	119.8	.....	21.4
Tara.....	54.8	45.7	54.0	.....	8.3
Thornton.....	13.4	12.0	12.7	.....	0.7
Utterson.....	9.4	24.0	35.0	.....	11.0
Uxbridge.....	85.8	102.5	104.5	.....	2.0
Wasaga.....	45.5	76.0	92.5	.....	16.5
Wroxeter.....	47.5	104.2	99.5	4.7	.....

**GEORGIAN BAY SYSTEM—NEW RURAL POWER DISTRICTS**

Rural power district	Date connected	Load in horsepower		Change in load	
		Initial	Oct. 1932	Decrease	Increase
Beeton.....	Nov. 1, 1931	2.0	2.0	.....	.....
Baysville.....	July 1, 1932	34.2	36.2	.....	2.0

**EASTERN ONTARIO SYSTEM**

On the Eastern Ontario system general industrial conditions resulted in a slight decrease in both the maximum demand and average load. However, considering the general effect of the depression on industrial customers, the load on this system made a very favourable showing. The decrease, which amounted to less than 5 per cent, was very largely due to the slackening of industrial activities in the Central Ontario, St. Lawrence and Madawaska districts. On account of these reductions in load it has been possible to effect certain economies in operation by maintaining the following generating stations on a standby basis:—Plant No. C-30 at Fenelon Falls and Plant No. C-5 at Frankford in the Central Ontario district and Galetta generating station in

the Madawaska district. Furthermore, the agreement under which the Commission has been taking power from time to time from the Corporation of Campbellford was cancelled by the Commission on March 31.

Stream flow conditions on the whole were very favourable during the year, and better than the average during those periods of the year when minimum conditions are usually experienced. This was due to very favourable precipitation, as will be noted from the accompanying plate, which clearly illustrates, month by month, the actual and normal precipitation in inches of rain.

During the year the usual programme of station and line maintenance work was carried out. This includes general maintenance and painting of buildings, structures and apparatus.

### Generating Stations

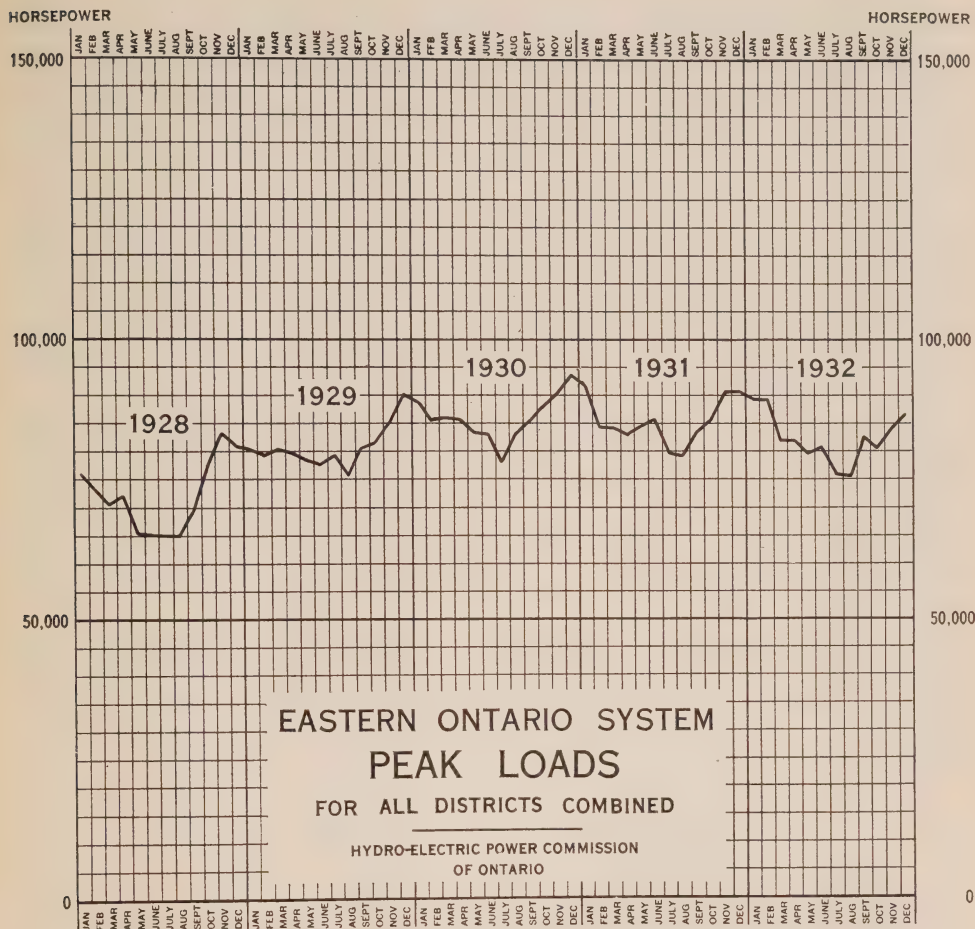
At Sidney, plant No. C-2, no extensive maintenance work was necessary. The units were all inspected and it was only necessary to replace the upper guide bearing of one generator. The river was lowered and the racks in front of the forebay were cleaned. The power house floors and walls, and the five operators' cottages, were all painted.

At Frankford, plant No. C-5 the ball bearing on the turbine exciter was overhauled. The forebay was unwatered and all the racks were cleaned. The power house floors and metal eaves on the roof were painted.

At Meyersburg, plant No. C-8, all turbines were unwatered and inspected, and the racks were cleaned. The runners of two turbines were badly eroded, but satisfactory repairs were made by welding. The stuffing boxes on all turbines were repacked. The walls and ceiling of one turbine pit was waterproofed, and water leaks between two other turbines were stopped. The high-tension line and generator oil breakers were all overhauled, and two defective high-tension bushings were replaced. All insulators on the disconnecting switches and the 44,000-volt bus were replaced by an improved type of insulator. The stator and rotor of all generators were thoroughly cleaned and painted. The collector rings were all ground and polished. The geared oil pump on one generator had to be replaced. The upper guide bearings were replaced on two of the generators. The three high-tension transformers were moved into the plant, one transformer at a time. The cores were raised, thoroughly inspected and cleaned. The insides of the transformer tanks were similarly treated. The oil was filtered and the transformers were then returned to their respective places outdoors. In order to provide improved relay protection, the high-tension neutral was grounded and directional residual relays were installed.

At Hagues Reach, plant No. C-9, all turbines were unwatered and inspected but no extensive maintenance work was found necessary. A new set of gears and drive chain were installed on one of the governor pumps. All insulators on the disconnecting switches and the 44,000-volt bus were replaced by an improved type of insulator. The high-tension line and generator oil-breakers were all overhauled and three defective high-tension bushings were replaced.

At Ranney Falls, plant No. C-10, the forebay was unwatered and the racks were cleaned. The turbines were inspected and adjustments were made to the lignum-vitae guide bearings in each turbine. A broken collar and shearing pin was replaced in one of the gate arms of one turbine. Concrete loading was



installed on the sliding headgates of each turbine. The high-tension oil-breakers and electrolytic lightning arresters were overhauled. The high-tension line relays were reconnected to provide more effective protection. The walls, ceilings and floors of the basement and generator pits were painted.

At Seymour, plant No. C-11, the forebay was unwatered and the racks were cleaned. All turbines were unwatered, and inspection showed that no major maintenance work was necessary. The upper guide bearing of one turbine was replaced and repairs were made to the crown gears of two turbines. A broken regulating ring arm was replaced on the exciter turbine. All governors were dismantled and thoroughly cleaned and all defective parts were replaced. The high-tension oil-breakers were overhauled on two occasions. Three generators failed in service during the year, due to severe surges during electrical storms, and it was necessary to replace a total of 167 bars. The upper guide bearing of one generator was rebabbited. As a safety measure, the iron ladder between the generator room and the high-tension gallery was replaced by steel steps with cement treads.



At Heely Falls, plant No. C-14, all turbines were unwatered and inspected, and it was found that one of the runners of one turbine was badly eroded. Satisfactory repairs were made by welding. A number of defective gate link bolts were replaced in each of the other two turbines. A steel guard was installed over the screen of the Pelton wheel of one unit. The high-tension oil-breakers were overhauled. The footings of the steel towers outside the power house were examined, and the stone retaining wall was rebuilt.

At Auburn, plant No. C-18, the forebay was unwatered and the racks were cleaned. The lower section of the stop-log gains in the dam in front of the forebay were examined and cleaned by a diver. The walls of the forebay were repaired. The turbines were inspected and all damaged or broken parts were replaced. Extensive grading was done on the land adjacent to the power house. This work was undertaken in conjunction with the city of Peterborough to provide work for the unemployed.

At Fenelon Falls, plant No. C-30, the turbines were unwatered and repairs and adjustments were made to the gate-operating mechanism of one turbine. The rheostats of both generators were overhauled. A 300-kv-a. transformer bank was installed outside the power house to provide a neutral for an 11,000-volt rural feeder which was taken off the station bus. This feeder was equipped with an oil-circuit breaker, relays and metering equipment, and supplies power to the Fenelon Falls rural power district.

At High Falls generating station, on the Mississippi river, the turbines were inspected but no extensive maintenance work was found necessary. The governor pump of one unit was completely overhauled. The high-tension and low-tension oil-breakers were overhauled. The power house roof was treated with a special roofing compound.

### **Municipal, Distributing and Switching Stations**

At Belleville switching station, all the high-tension oil-breakers were overhauled. All insulators on the high-tension line disconnecting switches were replaced by an improved type of insulator. Two sets of defective strain insulators were replaced on the 44,000-volt bus. A number of defective control cables, which extend underground between the switchboard and the various high-tension switch houses, were replaced. Relays were installed to provide more effective protection on the 44,000-volt bus.

At Lehigh distributing station, two defective high-tension wall-inlet bushings were replaced. The high-tension oil-breakers and electrolytic lightning arresters were overhauled. All of the insulators and the electrical equipment was thoroughly cleaned.

At Madoc distributing station, a defective 44,000-volt disconnecting switch was replaced. All the low-tension oil-breakers were overhauled.

At Norwood distributing station, three defective high-tension bushings were replaced in the 300-kv-a. transformer. The 44,000-volt air-break switch was overhauled.

At Omeme distributed station, the three 40-kv-a. transformers failed in service and were returned to the manufacturer where they were completely rebuilt. These transformers were replaced by three 50-kv-a. transformers which

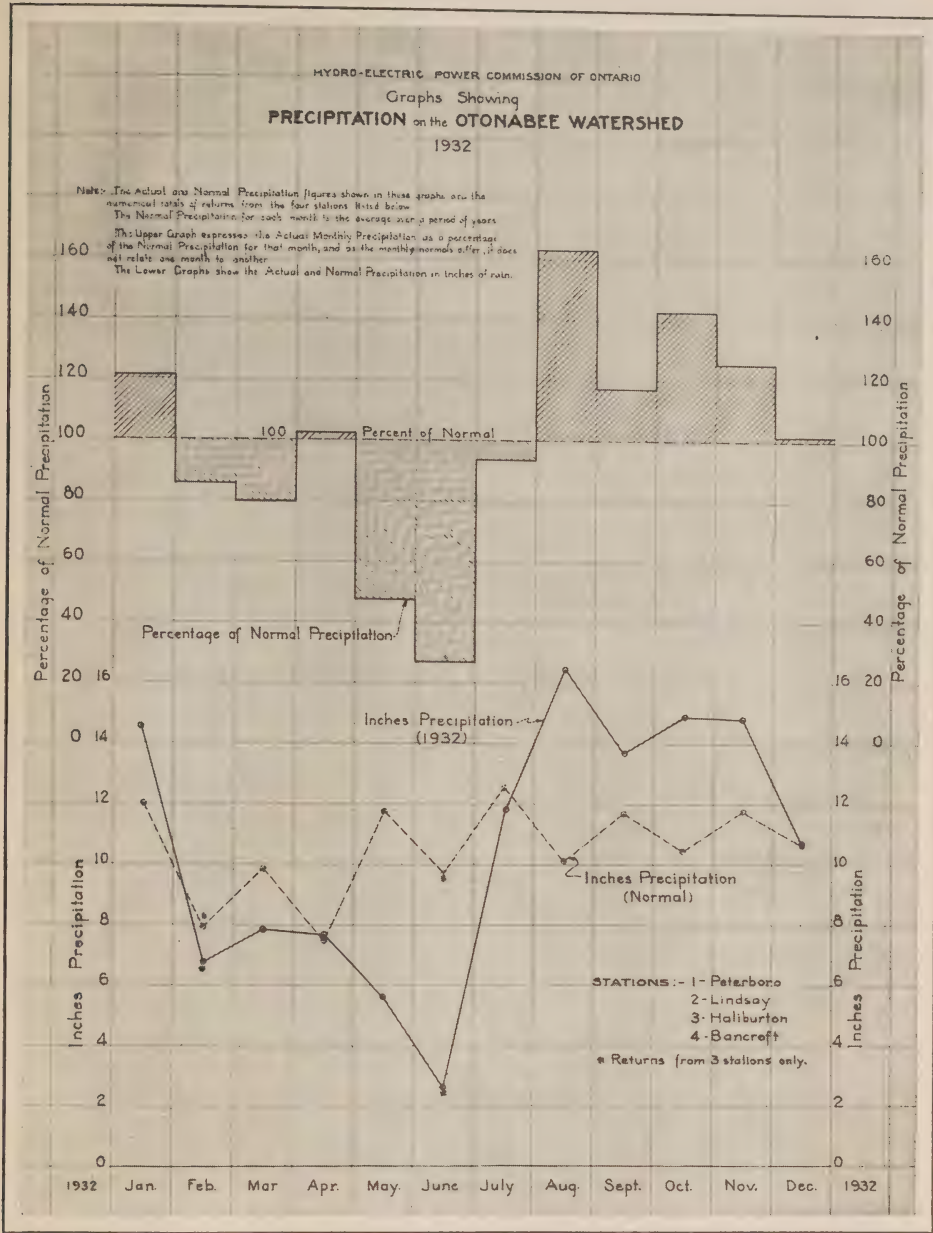


PLATE A—PRECIPITATION DATA—1932

The upper graph represents the estimated actual monthly precipitation on the Otonabee watershed expressed as a percentage of the normal precipitation.

The estimate is based upon the actual and normal return of the Meteorological Service for Peterboro, Lindsay, Bancroft and Haliburton.

Although the numerical values differ from month to month the normal precipitation is taken as 100 per cent, hence the solidly hatched areas represent the amount by which the precipitation exceeded the average while the dotted hatched area represents in a similar manner the deficiencies.

The lower graph shows the actual and normal precipitation in inches of rain.

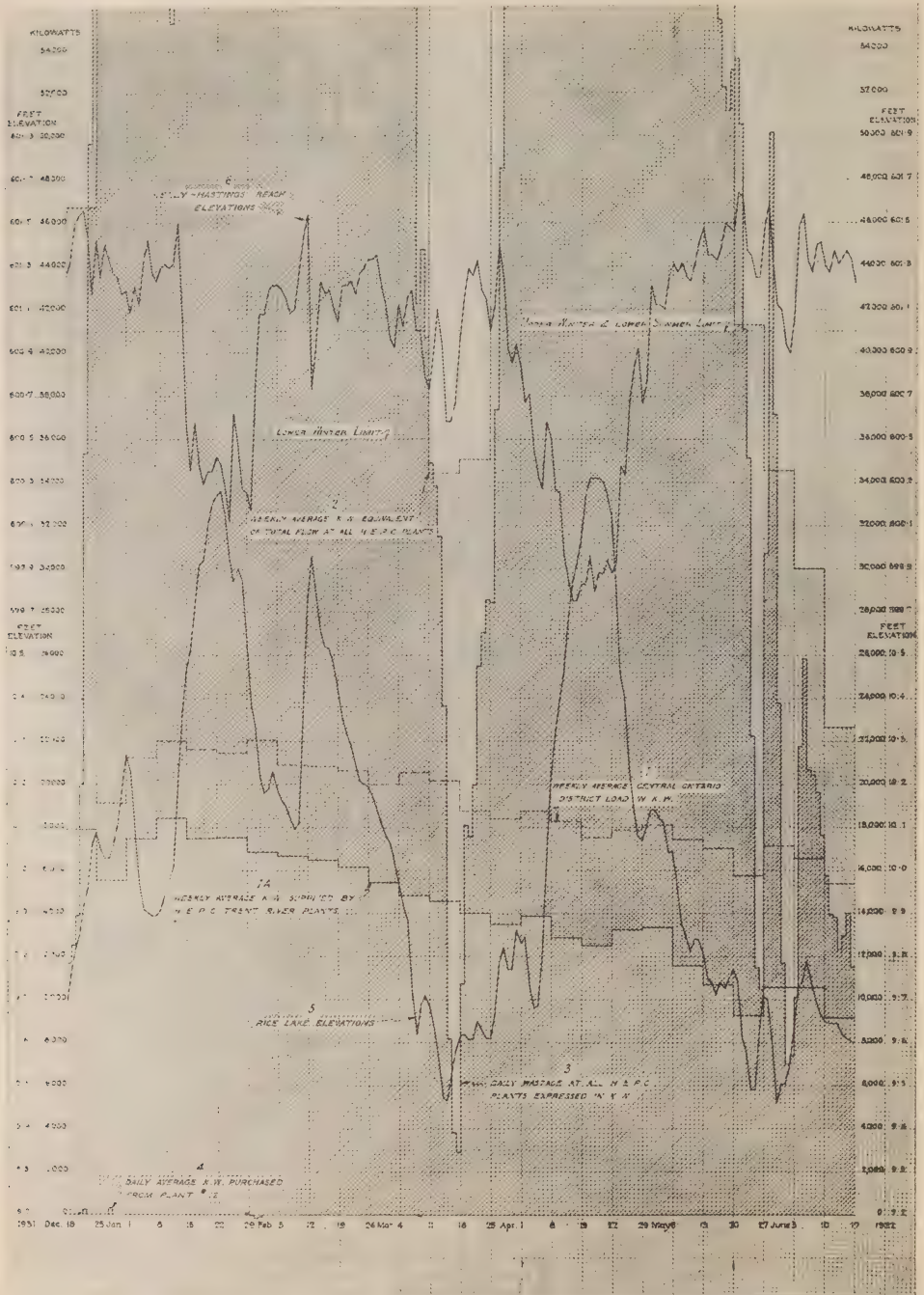


PLATE B1—GENERAL OPERATING DATA

December 18, 1931, to June 17, 1932

GRAPH No. 1—System average weekly load in kilowatts, which includes power purchased from the Gatineau Power Company and Plant No. 12.

GRAPH No. 1a—Weekly average load in kilowatts supplied by H.E.P.C. plants on the Trent and Otonabee rivers.

GRAPH No. 2—Weekly average power equivalent of total flow at all H.E.P.C. plants. This equals the weekly average load supplied by these plants, plus the power equivalent of the weekly average wastage at these plants. This wastage is shown by the dotted hatched area between curves 2 and 1a.



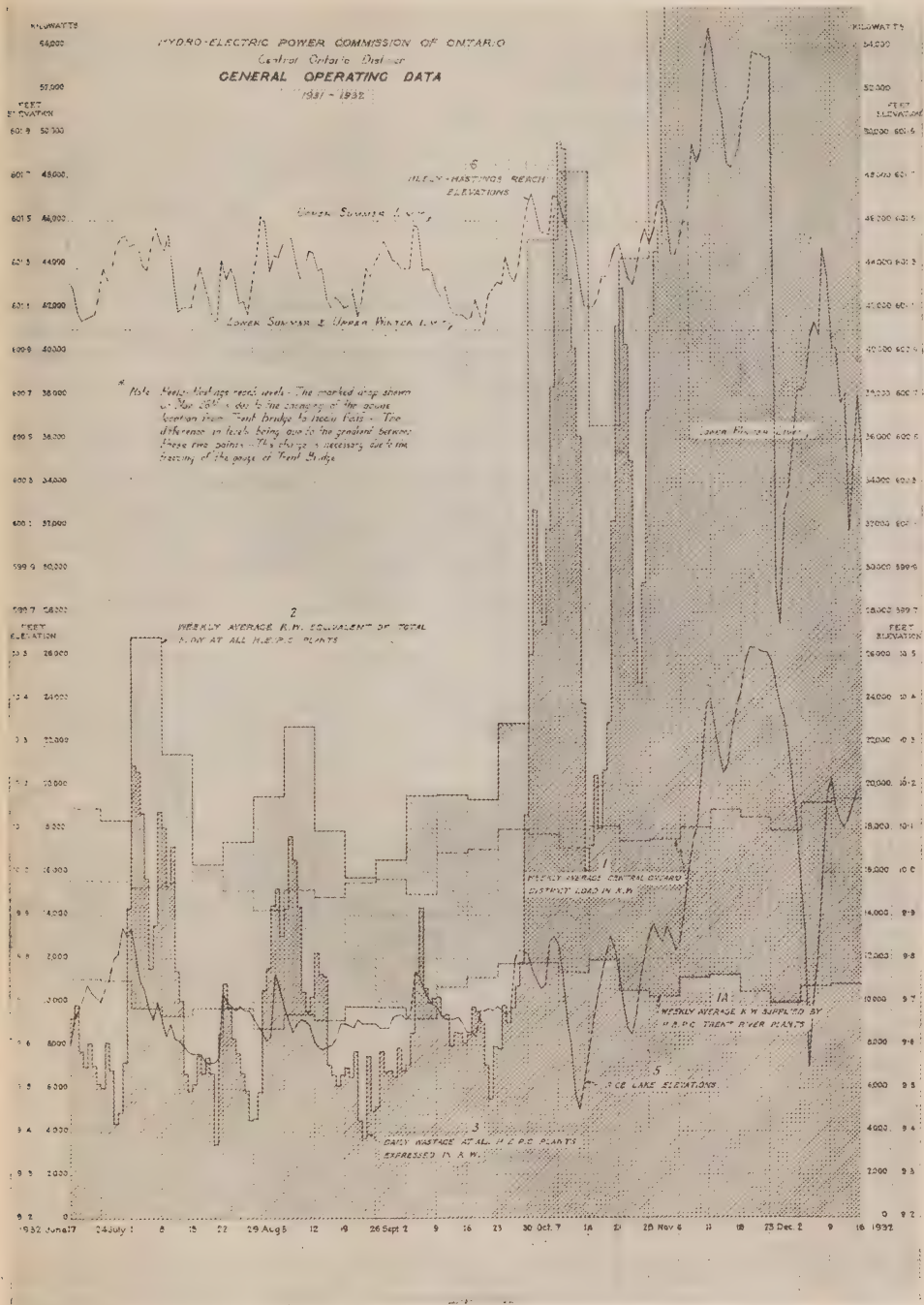


PLATE B2—GENERAL OPERATING DATA

June 17, 1932 to December 16, 1932

GRAPH No. 3—Average daily wastage at all H.E.P.C. plants. In the weekly aggregate the hatched area under this graph equals the wastage represented by the dotted hatched area between curves 2 and 1a.

GRAPH No. 4—Average daily power purchased from plant No. 12.

GRAPH No. 5—Midnight elevations of Rice lake.

GRAPH No. 6—Midnight elevations of Heely-Hastings reach.

were mounted on a cement pad. The high-tension and low-tension busses were rearranged. A new platform was installed in order to facilitate work in connection with replacing high-tension fuses.

At Oshawa No. 1 distributing station, there were no apparatus failures requiring extensive maintenance. All insulators were replaced on the 44,000-volt outdoor bus and on the 44,000-volt disconnecting switches with an improved type of insulator. New graphic metering equipment was installed on the Brooklin feeder.

At Oshawa No. 2 distributing station, all the old type insulators were replaced on the 44,000-volt disconnecting switches. Three single-pole disconnecting switches were installed on the secondary side of the 3,000-kv-a. transformer. The 4,160-volt tie line between this station and Oshawa No. 1 distributing station was rearranged and connected through an oil-breaker, and this station was then fed directly from No. 1 station. The 3,000-kv-a. transformer was then cut out of service until such time as it may be required to carry additional load.

At Port Hope distributing station, the high-tension electrolytic lightning arresters were overhauled. Repairs were also made to the low-tension oil-breakers. The station roof was rebuilt. The walls, ceilings and floors of the basement, switchboard room and the transformer pockets were painted.

At Port Hope switching station all the high-tension oil-breakers were overhauled. The roofs of the four switch houses were repaired and treated with roofing compound.

At Sidney terminal station, all the high-tension and low-tension oil-breakers were overhauled. Two defective 44,000-volt oil-breaker bushings were replaced. The high-tension line relays were reconnected to provide more effective protection.

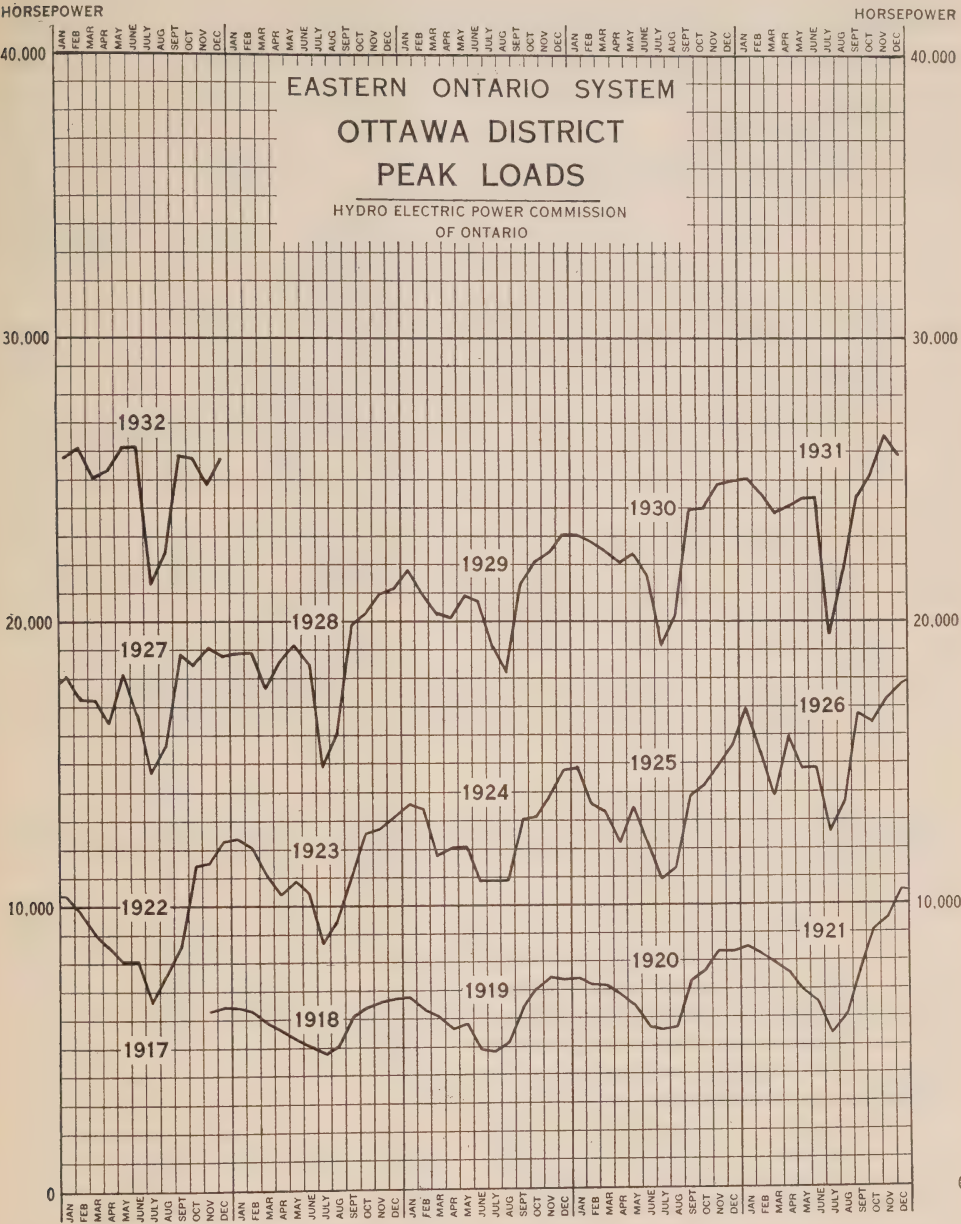
At Auburn transformer station, all insulators were replaced on the high-tension bus and the high-tension disconnecting switches with an improved type of insulator. The high-tension oil-breakers were overhauled. Two defective high-tension oil-breaker bushings were replaced. A number of defective current transformers were rebuilt. A second 44,000-volt circuit was built between this station and Peterborough municipal station in order to provide greater security of service to Peterborough.

At Frontenac transformer station, near Kingston, a spare 500-kv-a. transformer was installed.

At Perth distributing station, a second 750-kv-a. transformer was placed in service on July 25. An automatic air-break switch was installed, replacing the old manual type air-break switch and high-tension fuses. New platforms were built in order to facilitate work during switching operations. New relay equipment, and a 24-volt storage battery and charging equipment, were also installed.

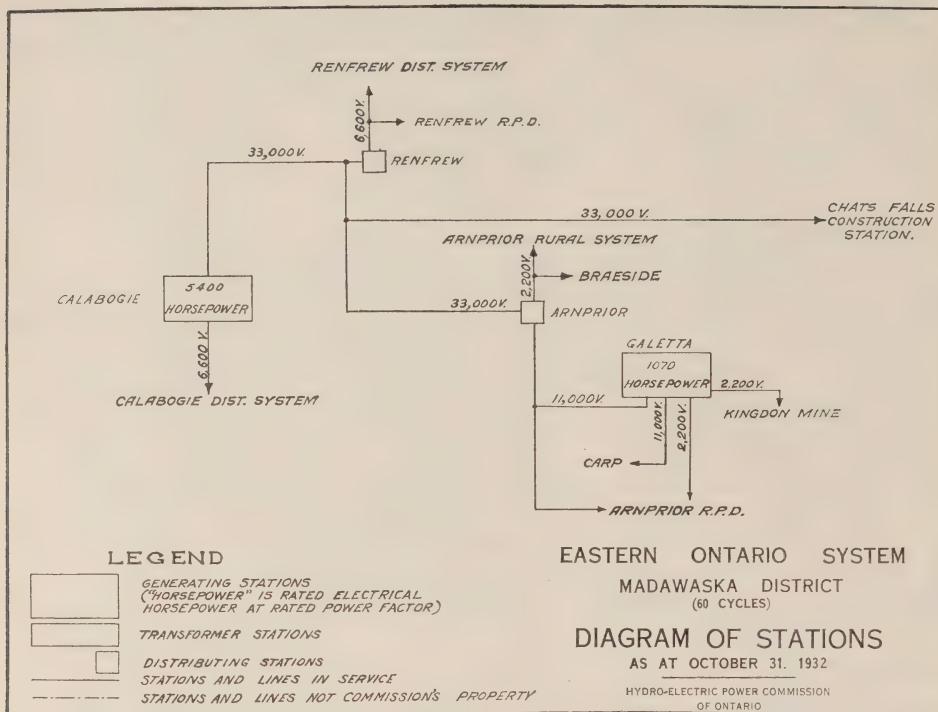
At Balderson distributing station, the 50-kv-a. transformer was replaced by a 150-kv-a. transformer. The air-break switch was reinsulated with an improved type of insulator.

At Smiths Falls transformer station, lightning arresters were installed on the Rideau district tie line. The 750-kv-a. transformer supplying power to the Rideau district, was replaced by a 1,500-kv-a. transformer on November 14, 1931. On August 27, two 1,250-kv-a. single-phase transformers, and one 1,500-



kv-a. three-phase transformer, failed in service. The 1,250-kv-a. transformers were operating in parallel on one phase of the 110,000-volt 7,500-kv-a. transformer bank. The 1,500-kv-a. transformer was used in connection with the Rideau district supply, and also acted as a tertiary for the 7,500-kv-a. bank. The 7,500-kv-a. bank was made up of one 5,000-kv-a. transformer in one phase and two 1,250-kv-a. transformers connected in parallel in each of the other two phases. Service was restored by regrouping the remaining good units in the 110,000-volt bank and installing the reserve 750-kv-a. transformer on the Rideau district





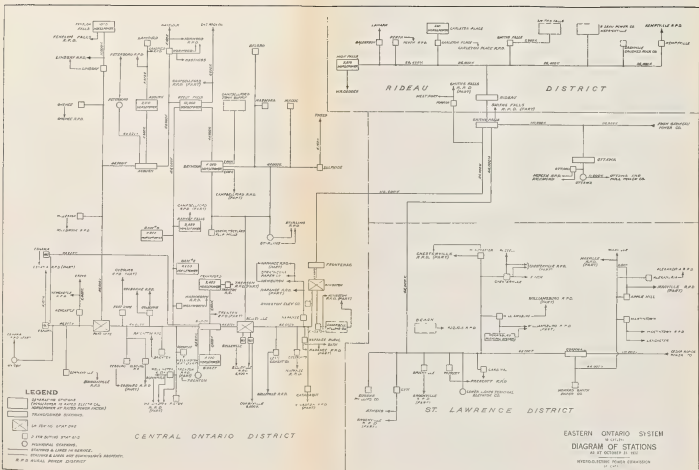
supply. This rearrangement temporarily reduced the station capacity, but not sufficiently to interfere with service. The damaged transformers have been satisfactorily repaired by the Commission's staff.

At Cornwall transformer station, the 110,000-volt electrolytic lightning arresters, and the 44,000-volt oil-breakers were overhauled. Repairs were also made to the 110,000-volt disconnecting switches. One 110,000-volt entrance bushing failed in service and was replaced. The brick work on the north, south and west walls of the station was repointed and part of the pier in the southwest corner of the building was rebuilt. General improvements were made to the appearance of the station site.

At Winchester distributing station, the 300-kv-a. transformer failed in service on May 5, and was returned to the manufacturer for repairs. This transformer was replaced by a 300-kv-a. reserve transformer from Smiths Falls transformer station. The 44,000-volt air-break switch was reinsulated with an improved type of insulator.

At Williamsburg distributing station, the 50-kv-a. transformer was replaced by a 100-kv-a. transformer on August 15.

At Martintown distributing station trouble was experienced due to the failures of the old type of high-tension transformer bushings. The transformer cover was rebored, and improved porcelain bushings were installed. The disconnecting switch was reinsulated with an improved type of insulator.







At Cardinal distributing station, two defective high-tension bushings were replaced in the 300-kv-a. transformer.

The temporary transformer station at Chats Falls, which was built for the purpose of supplying power from the Madawaska district during the construction of the Chats Falls 25-cycle development, was taken out of service on October 17.

### High-voltage Transmission Lines

The usual routine inspection and maintenance of high-voltage transmission lines was actively carried out in the various districts during the year. A number of highway, railway and foreign wire crossings were rebuilt to conform with present-day requirements. Approximately ten thousand poles were inspected, of which over twelve hundred were found defective and were stubbed. A number of poles were relocated in various districts due to highway changes and improvements. Approximately forty thousand pin-type insulators were inspected and over two thousand defective units were replaced. The usual programme of tree trimming was carried out. A second 44,000-volt line was built between Auburn switching station and Peterborough municipal station by the Peterborough Public Utilities Commission.

### Meter Department and Repair Shops

The Belleville machine and meter repair shop has continued the usual programme of testing and repair of service meters for municipal and rural systems. There were approximately thirty-six hundred meters adjusted and repaired and thirteen hundred new meters handled by this department during the year. A certain amount of work was also carried out in connection with repairs and replacement parts for hydraulic and electrical equipment.

#### EASTERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES—1930-1931-1932

Municipality	Peak load in horsepower			Change in load 1931-1932	
	Oct. 1930	Oct. 1931	Oct. 1932	Decrease	Increase
Alexandria.....	260.9	184.5	212.9	.....	28.4
Apple Hill.....	27.5	28.0	30.1	.....	2.1
Athens.....	87.9	74.2	82.4	.....	8.2
Belleville.....	3,539.7	3,687.5	3,701.4	.....	13.9
Bloomfield.....	121.0	87.8	73.4	14.4	.....
Bowmanville.....	1,766.4	1,551.4	1,546.2	5.2	.....
Brighton.....	274.2	284.8	270.7	14.1	.....
Brockville.....	2,220.2	2,271.2	2,380.1	.....	108.9
Cardinal.....	112.6	131.3	139.7	.....	8.4
Carleton Place.....	843.1	848.5	966.5	.....	118.0
Chesterville.....	198.4	197.7	191.1	6.6	.....
Cobourg.....	1,383.0	1,468.6	1,424.7	43.9	.....
Colborne.....	190.6	182.3	163.6	18.7	.....
Deseronto.....	181.3	146.8	148.6	.....	1.8
Finch.....	50.0	38.9	42.3	.....	3.4

## EASTERN ONTARIO SYSTEM—LOADS OF MUNICIPALITIES—1930-1931-1932—Con.

Municipality	Peak load in horsepower			Change in load 1931-1932	
	Oct. 1930	Oct. 1931	Oct. 1932	Decrease	Increase
Hastings.....	.....	73.7	65.2	8.5	.....
Havelock.....	228.5	227.9	175.6	52.3	.....
Kemptville.....	241.3	241.9	241.3	0.6	.....
Kingston.....	4,451.8	4,580.0	5,105.2	.....	525.2
Lakefield.....	225.6	227.7	209.7	18.0	.....
Lanark.....	61.6	61.8	64.7	.....	2.9
Lancaster.....	67.4	62.9	33.6	29.3	.....
Lindsay.....	1,662.3	1,718.9	1,564.5	154.4	.....
Madoc.....	168.9	165.7	153.6	12.1	.....
Marmora.....	87.6	89.2	85.8	3.4	.....
Martintown.....	27.5	26.1	21.5	4.6	.....
Maxville.....	58.0	72.6	80.4	.....	7.8
Millbrook.....	85.6	68.9	79.6	.....	10.7
Napanee.....	1,009.8	1,015.2	935.2	80.0	.....
Newburgh.....	45.5	41.0	42.6	.....	1.6
Newcastle.....	82.0	82.5	64.2	18.3	.....
Norwood.....	168.7	135.3	116.3	19.0	.....
Omeme.....	74.4	76.6	77.4	.....	0.8
Orono.....	60.9	58.5	78.3	.....	19.8
Oshawa.....	8,706.4	7,369.9	6,494.6	875.3	.....
Ottawa.....	23,597.0	24,841.8	25,758.6	.....	916.8
Perth.....	891.4	1,069.1	1,038.9	30.2	.....
Peterborough.....	6,400.2	6,158.4	6,011.4	147.0	.....
Picton.....	804.3	887.4	871.6	15.8	.....
Port Hope.....	1,331.6	1,108.0	1,081.9	26.1	.....
Prescott.....	882.5	815.5	770.8	44.7	.....
Richmond.....	49.0	39.4	45.9	.....	6.5
Russell.....	72.4	57.9	42.6	15.3	.....
Smiths Falls.....	1,615.3	1,597.9	1,509.3	88.6	.....
Stirling.....	252.5	265.1	239.9	25.2	.....
Trenton.....	2,731.6	2,874.1	2,745.4	128.7	.....
Tweed.....	197.0	189.9	169.2	20.7	.....
Warkworth.....	69.9	75.8	67.7	8.1	.....
Wellington.....	201.0	205.9	191.7	14.2	.....
Whitby.....	1,020.1	1,028.5	1,009.4	19.1	.....
Williamsburg.....	37.3	69.7	142.1	.....	72.4
Winchester.....	212.3	216.4	235.7	.....	19.3

## EASTERN ONTARIO SYSTEM—NEW MUNICIPALITIES

Municipality	Date connected	Load in horsepower		Change in load	
		Initial	Oct. 1932	Decrease	Increase
Bath.....	Nov. 4, 1931	20.6	23.4	.....	2.8
Westport.....	Nov. 14, 1931	59.2	65.1	.....	5.9

## EASTERN ONTARIO SYSTEM—RURAL POWER DISTRICT LOADS, 1930-1931-1932

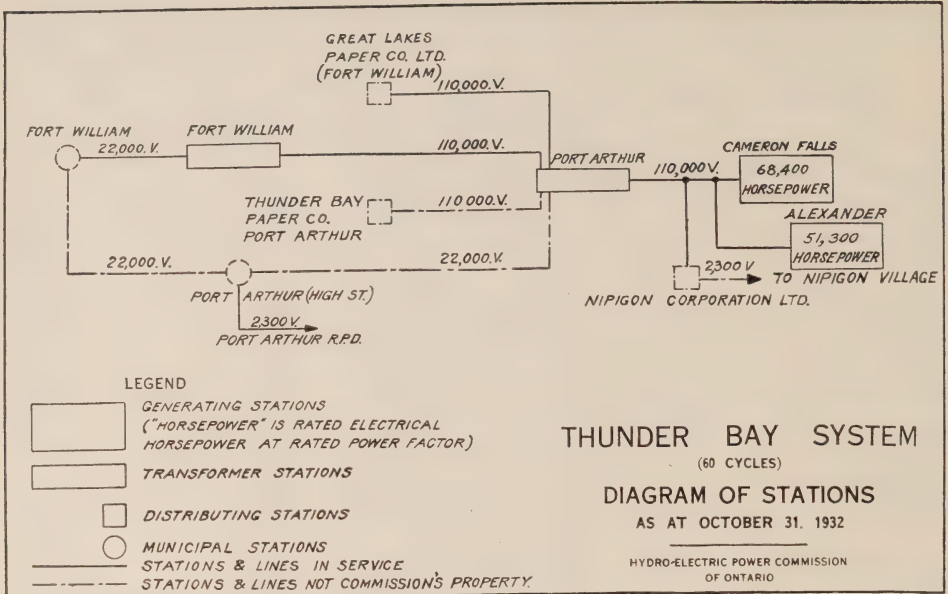
Rural power district	Peak load in horsepower			Change in load 1931-1932	
	Oct. 1930	Oct. 1931	Oct. 1932	Decrease	Increase
Alexandria.....	15.2	25.0	30.4	.....	5.4
Belleville.....	240.4	281.6	304.0	.....	22.4
Bowmanville.....	56.7	160.4	97.3	63.1	.....
Brighton.....	14.0	16.8	22.8	.....	6.0
Brockville.....	406.3	269.0	288.1	.....	19.1
Campbellford.....	54.7	58.9	67.3	.....	8.4
Chesterville.....	104.4	184.5	186.2	.....	1.7
Cobourg.....	122.3	220.3	242.9	.....	22.6
Colborne.....	67.0	77.0	94.2	.....	17.2
Fenelon Falls.....	.....	20.0	47.2	.....	27.2
Iroquois.....	375.0	415.5	445.0	.....	29.5
Kemptville.....	.....	13.4	18.1	.....	4.7
Kingston.....	151.3	265.7	296.2	.....	30.5
Lakefield.....	1.0	10.0	32.7	.....	22.7
Lindsay.....	0.0	4.0	10.0	.....	6.0
Martintown.....	46.5	62.5	53.4	9.1	.....
Maxville.....	91.1	118.4	156.0	.....	37.6
Millbrook.....	27.0	31.9	34.3	.....	2.4
Napanee.....	103.4	145.8	177.2	.....	31.4
Nepean.....	450.3	563.8	624.3	.....	61.5
Newcastle.....	47.1	61.7	72.6	.....	10.9
Norwood.....	9.7	21.0	27.9	.....	6.9
Omeme.....	.....	3.0	3.0	.....	.....
Oshawa.....	372.6	667.1	677.0	.....	9.9
Perth.....	.....	3.0	21.4	.....	17.4
Peterborough.....	434.3	476.4	420.4	56.0	.....
Prescott.....	85.3	92.0	109.8	.....	17.8
Smiths Falls.....	137.3	211.0	48.1	.....	1.9
Stirling.....	26.3	46.2	151.8	59.2	.....
Trenton.....	12.4	139.0	127.5	11.5	.....
Warkworth.....	2.5	3.0	3.0	.....	.....
Wellington.....	108.8	169.7	194.6	.....	24.9
Williamsburg.....	20.6	32.8	52.8	.....	20.0

**THUNDER BAY SYSTEM**

The load on the Thunder Bay system during the past fiscal year has shown a slight decrease from that existing during the previous year, the average monthly energy generated being about 0.7 per cent less and the average monthly peak being about 3.1 per cent less during 1932 than in 1931. There has been no restriction of power supply to any customers on this system. The Nipigon Corporation pulp mill at Nipigon has not been operating during the year, but the station has been maintained alive, Nipigon township being supplied from this point.

Considerable hydraulic maintenance work has been carried on at Cameron falls generating station during the year, the major item being the repairing of the eroded areas of No. 3 turbine by welding the runner in place. Special atten-



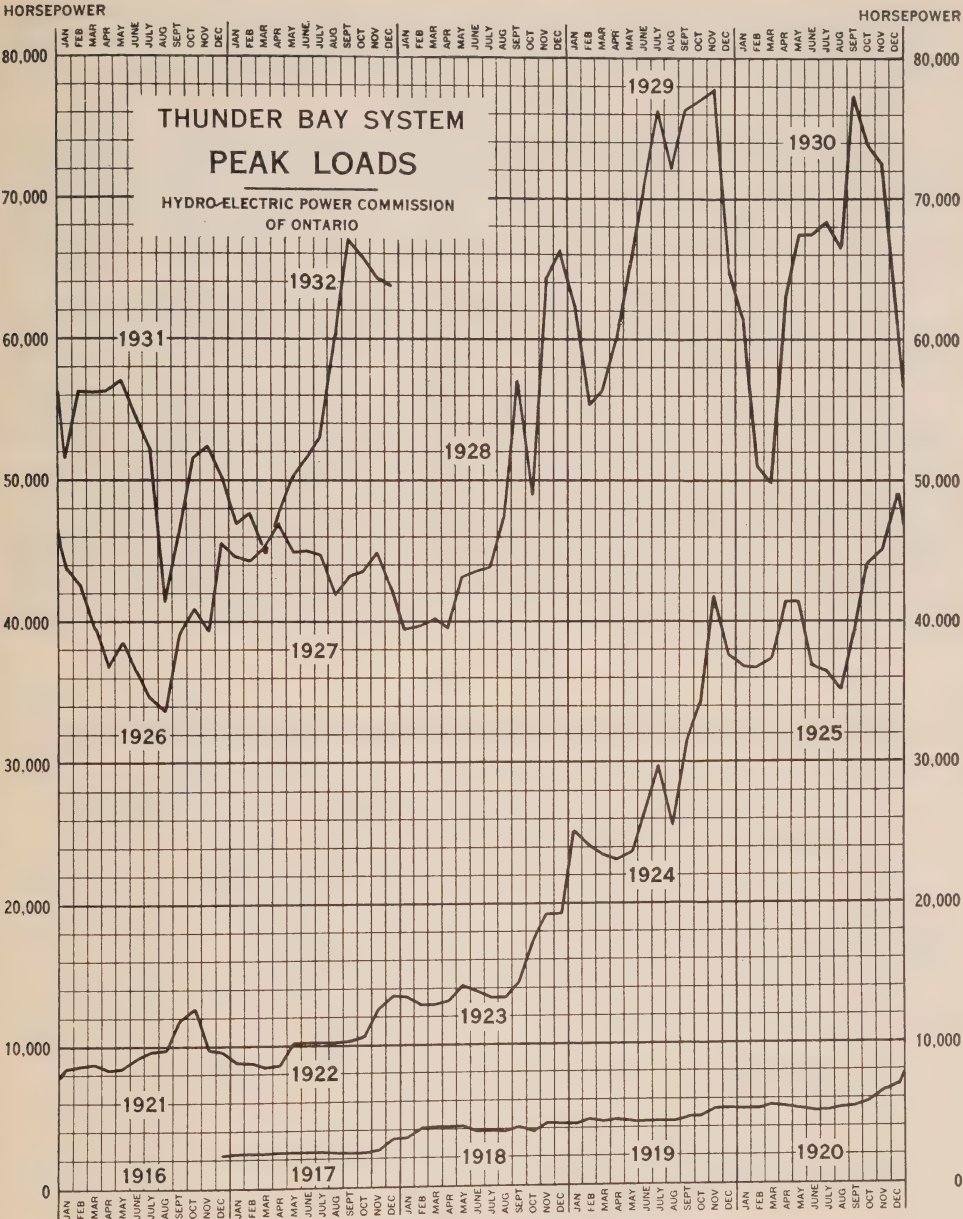


tion was paid to the testing and adjustment of the governors. The operation of No. 6 governor was improved by the installation of a new type flyball head. The auxiliary hydraulic equipment has been maintained in first-class condition.

No. 1 generator at Cameron falls generating station, which was dismantled for cleaning and repairs during the latter part of the previous year, was re-assembled and returned to service. All power transformers at this station have operated satisfactorily, routine maintenance work only being required.

Alexander generating station has given very satisfactory operating service, there being no major maintenance required on any equipment throughout the year. A new permanent magnet generator was installed on No. 2 unit. This is used to supply energy to the governor flyball head, replacing the pilot exciter source as formerly used. This new generator has given very satisfactory service to date. This station is now remote controlled from Cameron Falls generating station, the supervisory equipment having been placed in service about the middle of the year. While a few troubles have been encountered with this control equipment, on the whole its operation has been very satisfactory. In connection with this supervisory control the use of an automatic synchronizer, for synchronizing the generators at Alexander generating station with this system, might be mentioned, as it is the first of this type of equipment to be used in any of the Commission's stations. No faulty operations have been experienced with the device.

The service obtained from the transmission line during the year has been very good. There have been three total system interruptions, two for one minute each due to flashovers, involving two lines with the third line out of service, and one of two minutes' duration due to line trouble during a heavy snowstorm. In addition to the above, logs being blown into the line during blasting operations on a new highway accounted for a major outage to Nipigon



Corporation station, a flashover during an electrical storm was responsible for another interruption to this customer, while a third was caused by line trouble during the above snowstorm.

In co-operation with the Department of Highways about seventeen hundred feet of 110,000-volt wood-pole line was moved to one side in order to clear the right-of-way for the new highway at Pearl lake. Special attention has been given to testing the line insulators and replacing those found faulty. A number

of twin-pole dead-end structures of No. 1 line were removed and replaced by standard single poles. Some other maintenance work has also been done on the wood-pole lines in tightening guys, etc. Brush was cut along certain sections of the right-of-way.

The Port Arthur transformer station has had no curtailment of service to any customer due to failures of equipment. The relay and breaker equipment has operated correctly during the year. The 110,000-volt oil-breakers at this station were all given a complete overhaul and are now in good operating condition.

The Fort William transformer station also has had no failure of equipment or incorrect functioning of relays or breakers. Routine maintenance work only was required at this station.

The precipitation in the watershed supplying this system has been relatively heavy during the year, being the greatest recorded since the system commenced operation twelve years ago. During the first few months of the year the two generating stations were operated in such a way as to conserve the largest amount of water. With the light load on the system and the heavy precipitation it was found necessary to waste a considerable amount of water at both plants during the remainder of the year in order to prevent the elevation of Lake Nipigon from rising unduly. In spite of the high flow, the level of Lake Nipigon has been raised about a foot during the year.

THUNDER BAY SYSTEM—LOADS OF MUNICIPALITIES, 1930-1931-1932

Municipality	Peak load in horsepower			Change in load 1931-1932	
	Oct. 1930	Oct. 1931	Oct. 1932	Decrease	Increase
Fort William.....	10,596.5	11,451.7	10,916.7	535.0	.....
Nipigon Township.....	65.7	70.3	83.0	.....	12.7
Port Arthur.....	38,619.4	27,024.4	35,195.1	.....	8,170.7

THUNDER BAY SYSTEM—NEW RURAL POWER DISTRICTS

Rural power district	Date connected	Load in horsepower		Change in load	
		Initial	Oct. 1932	Decrease	Increase
Fort William.....	Oct. 1, 1932	35.0	35.0	.....	.....
Port Arthur.....	Jan. 23, 1932	7.5	23.7	.....	16.2



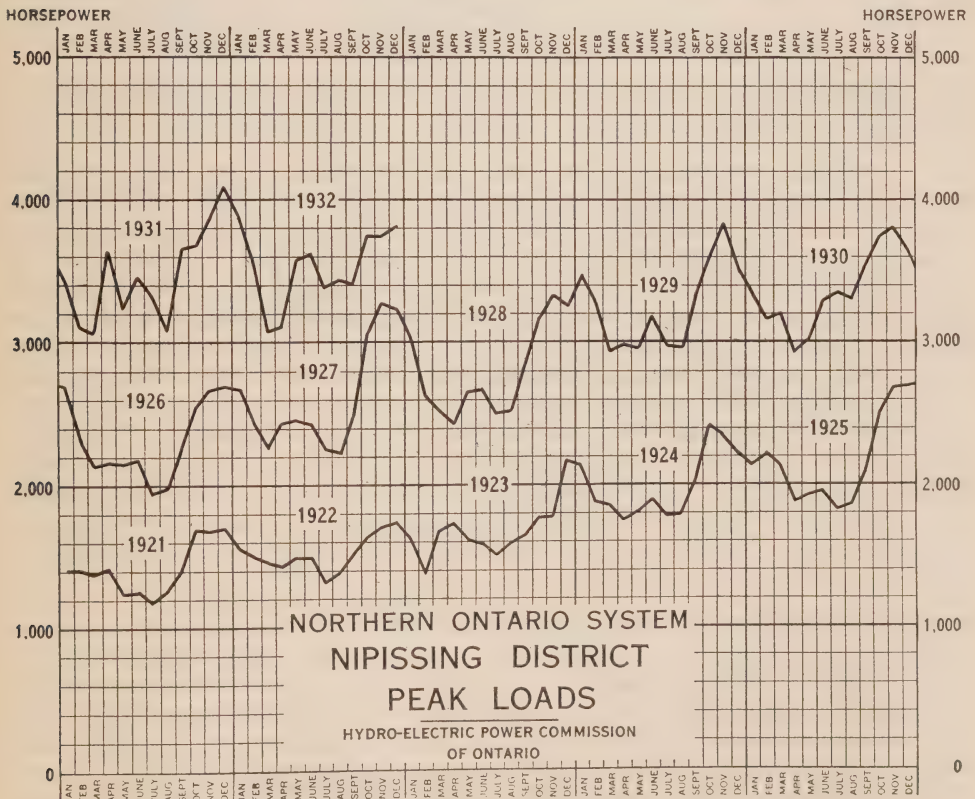
## NORTHERN ONTARIO SYSTEM

## Nipissing District

The generated peak and average loads on this district show very little change from last year, being higher for some months than for the corresponding months of the previous year, and lower for other months. Over the entire year a slight increase in both peak and average generated loads is shown.

The autumn of 1931 marked the termination of a three-year period of sub-normal precipitation and river flow on the district. During that period persistent efforts were made to improve and enlarge storage facilities, and this policy has been continued throughout the current year. As a result, more advantage was derived from the increased precipitation of the current year than would otherwise have been the case, and the quantity of water stored for future use is now higher than at any previous time.

Maintenance work was carried out and improvements were made on the various line sections in the district. On the 22,000-volt line between Nipissing generating station and Bingham Chute junction approximately twenty-five per cent of the old poles were replaced. Between Bingham Chute junction and



Callander the old No. 9 iron telephone wire, which has served its useful life, was replaced for a distance of five and one-half miles with No. 6 aluminum cable steel reinforced conductor. Relocation and adjustment of lines paralleling the highway was found necessary at several points to accommodate improvements to the Ferguson highway. Several small details required to complete the Sturgeon Falls-North Bay tie line were undertaken. The obsolete operating mechanisms on the air-break switches at North Bay Z4 sub-station, Bingham Chute junction and Elliott Chute junction were replaced with up-to-date mechanisms. Conditions at all points where the Commission's circuits cross railroads, highways and foreign circuits, were investigated with a view to bringing these crossings up to the Commission's standard. Insulator testing and grading was carried out on the main sections of line.

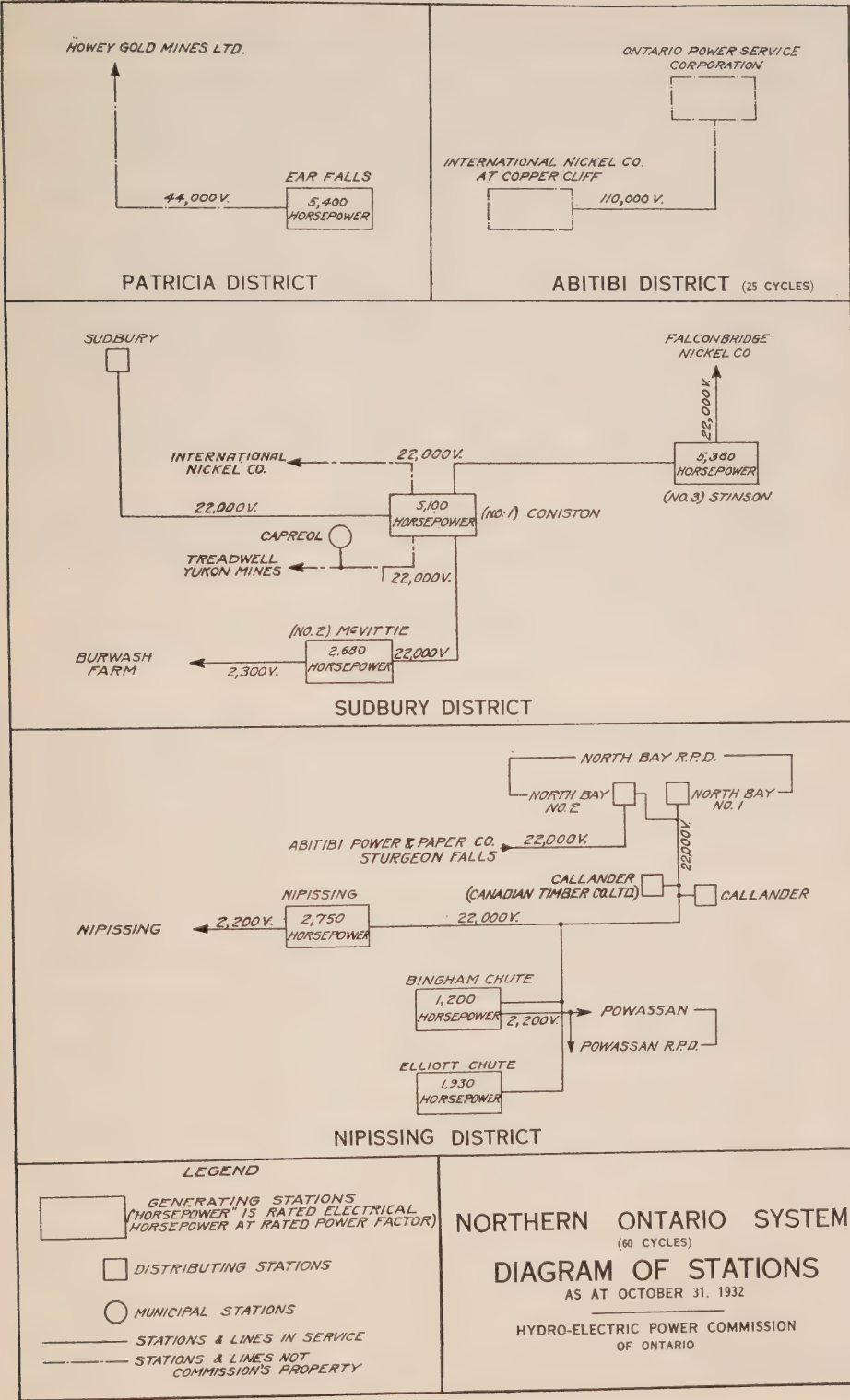
At Nipissing generating station approximately three hundred feet of the seven-foot diameter wood-stave pipe line was found to have settled an average of about six inches below its original grade line. Settling was attributed to the lack of natural drainage of the soil on which this section of pipe line was bedded. To prevent further settling of this nature, drainage ditches totalling thirteen hundred and thirty-four feet in length were dug, and three hundred feet of tile drain was laid. The entire surface of this pipe line was brush-treated with creosote as a preservative measure.

On inspection of the two turbines at this station it was found that erosion of the buckets on the cast-iron runners of both units had progressed to such an extent as to make satisfactory and economical repairs by welding impossible. An order for two new Niagara bronze runners of improved design has been placed, and these will be installed as soon as delivery is obtained.

General maintenance work was carried out at this station, including repairs to station roof, painting of surge tank housing, improvement of grounds, etc.

At Bingham Chute station the upstream face of the side dam was rip-rapped for about four feet above normal water level to prevent erosion. Eighty-seven cubic yards of rock were used in this work. The annual mechanical inspection showed that no major repairs or adjustments were required. In line with the general policy of annual improvement of station and grounds the following work was undertaken: chimneys of two operators' cottages were rebuilt, cement walks from cottages to highway were laid, drinking water was piped into the generating station from one of the operator's cottages, the road from the generating station to the highway was gravelled, the grounds around the outdoor transformer structure were improved, and painting was done where required. The entire surface of the eight-foot diameter wood-stave pipe line was brush-treated with a preservative coat of creosote. A long-distance voltage recorder was installed for registering at Bingham Chute generating station the low-tension voltage at the North Bay Z9 sub-station, utilizing the Commission's private telephone circuit for transmission.

At Elliott Chute generating station the rip-rap on the face of the east end of the main dam was extended in order to protect from erosion portions of the dam not previously rip-rapped. Seventy-two cubic yards of rock were used for this work. In accordance with agreements with the various townships, roads that were constructed by the Commission to take the place of township roads which were flooded by the Elliott Chute development, were repaired. These roads have now been accepted by the townships and the Commission's obligations





in this connection have been terminated. Mechanical inspection of turbines and equipment showed that no major repairs or adjustments were necessary.

Owing to the development of a leak in the earth-fill dam at this station it was found necessary to continue the sheet-steel piling to the rock outcrop at the shore end, a distance of approximately one hundred feet. Piling was driven to a depth of thirty-seven feet in some locations. Cave-ins on the downstream side resulting from the leak were filled in and more adequate drainage was provided.

In the village of Callander a new outdoor type step-down transformer station, to supply power to the mill of the Canadian Timber Company Limited, was placed in service on July 1. Three 50-kv-a. transformers step the voltage down from 22,000 to 550, and the 550-volt leads are carried into the customer's mill. A short tap line was required to connect the new station with the 22,000-volt Callander to North Bay line.

At the Z9 sub-station in North Bay extensive repairs to the roof were required. At Z4 sub-station in North Bay improvements to the station grounding were undertaken.

Periodic tests on insulating oils from all transformers and oil circuit-breakers on the district were conducted. The oils in power transformers at Bingham Chute generating station and North Bay Z9 sub-station were filtered as test results showed such treatment to be necessary.

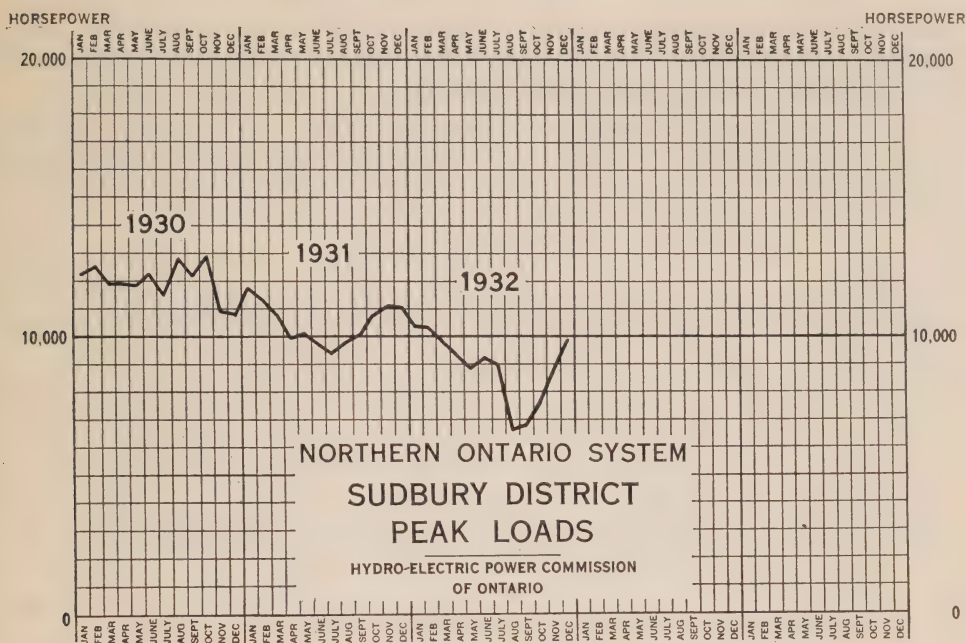
### Sudbury District

A general decrease in load has been experienced in this district during the year. A very small portion of this decrease is due to reduced domestic consumption, the major portion being due to the lessened activities of most of the industrial customers in the mining and smelting industry. As a large portion of the decrease is paid for under the minimum clauses of the power contracts, revenues have not been as adversely affected as load conditions would indicate.

Owing to favourable precipitation, storage and river-flow conditions throughout the year were excellent. All storage dams being in good condition, only minor maintenance details and preservative measures were found necessary.

To eliminate damage to poles from river debris during flood periods, 1.4 miles of the 22,000-volt tie line between McVittie generating station and Coniston generating station were removed to a shorter and better route. Previously the poles were situated on the river's edge. All insulators on this line were tested and all defective insulators, cross-arms, poles and guys were replaced. Right-of-ways of all lines were cleared of brush and new growth where necessary. All poles on the 22,000-volt line between Stinson generating station and Coniston generating station were treated at the butts with creosote as a preservative measure.

At Coniston generating station the timber and masonry headrace was unwatered, the timber section was resheeted and the masonry section repointed where the original pointing had become defective due to ice conditions. The headrace concrete floor between trash rack and head gates was relaid, as the original flooring had broken up and some of the stone had been carried down the steel-pipe lines to the turbines. New stop logs were purchased for the head-



The above graph shows the load of the Sudbury district alone; the load of the Abitibi district being shown in a separate graph. In last year's Annual Report the load graph showed the combined load of the Sudbury and Abitibi districts for October, November and December, 1931

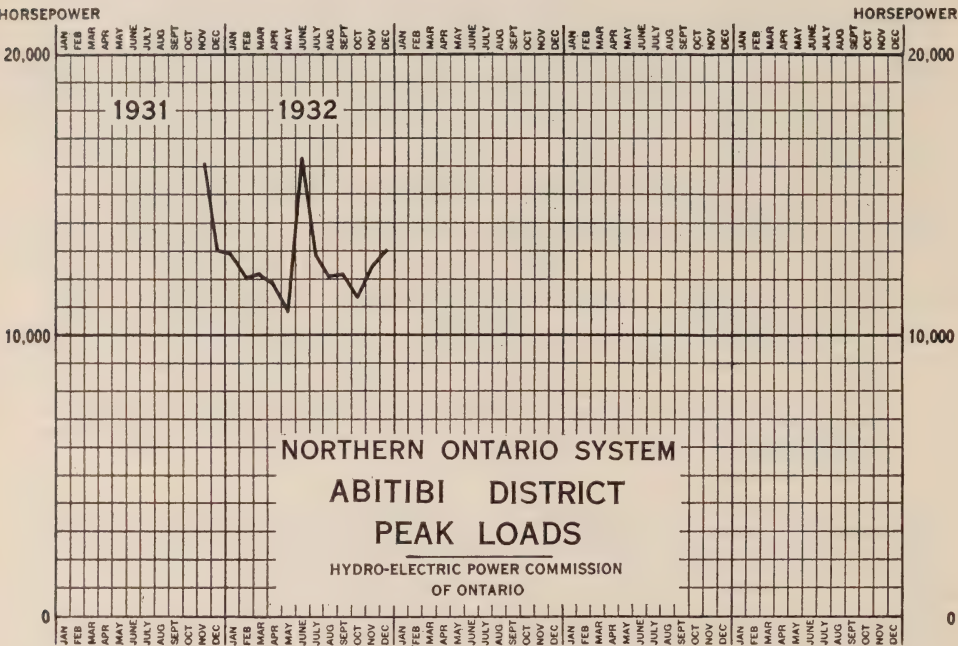
race gates. On the No. 3 turbine four cracked guide vanes were repaired by welding; the lignum-vitae governor shaft bearing was renewed, and other repairs of a minor nature were carried out. On the No. 1 and No. 2 units only minor repairs and adjustments were required. Painting was carried out where required. The relation between headwater and tailwater was checked, staff gauges were installed in headrace and tailrace and permanent bench marks for checking the staff gauges were placed.

At McVittie generating station the wooden deck of the concrete main dam was renewed, the stop-log gains were repaired, loose concrete in the headworks was removed and replaced with new concrete, and the trash racks were rehabilitated. At the timber-crib wing dam a large amount of stone was placed in front of No. 1 pier, the gravel fill along the upstream side was increased, and the fill was then paved with stone to prevent the gravel being carried downstream during flood periods. Seven coils of the No. 1 No. 1,250-kv-a. generator, which were damaged by lightning, were replaced with new coils. Several defective mica bars in the commutator of the No. 1 exciter, were replaced. The lignum-vitae bearings in both turbines were renewed. Steel-pipe lines and turbine cases were painted as a protective measure. Other painting was undertaken where required. Only minor mechanical repairs and adjustments were found necessary on the turbines. Reshingling, and other smaller items of maintenance to the boarding-house and superintendent's house were undertaken.

At Stinson generating station all cracks in the concrete dam and headworks were filled with a plastic sealing compound to prevent further damage from frost action. A frequency meter was installed and a defective power factor meter replaced. The inability completely to shut down the two units by turbine gate

closure was investigated and remedial measures are now being carried out. The boat-house and ice-house were sheeted outside with clap boards, and these and one of the operator's cottages were painted.

Grounding was investigated at all stations on the district and improvements carried out where found necessary. At each of the three generating stations, electric sirens were installed to enable the operator to call assistants in case of emergency.



The peak load occurring in October, 1931, the first month of operation, has not been included in graph as it was created by tests on the equipment and not by the delivery of commercial power

Abitibi District

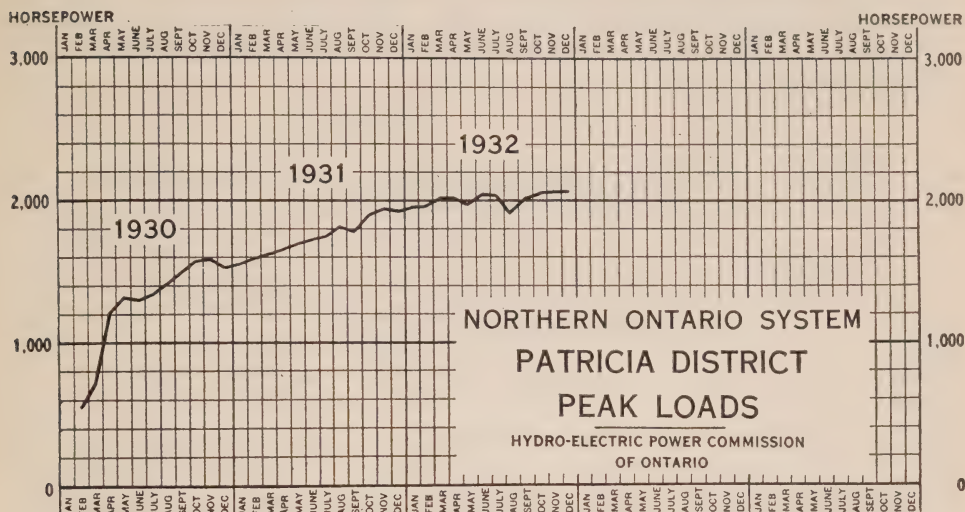
The operation of the 189 miles of 110,000-volt steel-tower line between Hunta and Copper Cliff was satisfactory throughout the year. Up to the end of the fiscal year, this line comprises all of the Commission's property in this district.

All steel towers on the line were carefully inspected and all loose bolts tightened. Conductors, vibration absorbers and ground wire were inspected for defects at several towers on each patrol beat.

Patrol trails were cleared where necessary, and some tree trimming along the right-of-way was undertaken for the protection of the circuits. Some work was done on the patrolmen's living quarters to make them suitable for permanent occupation; in most cases they are situated in more or less isolated localities along the line.

Tests were made on the telephone circuit, and improvements effected in the ringing facilities.





### Patricia District

The generating and transformer station at Ear Falls on the English river has been in satisfactory operation throughout the year. All equipment has functioned as required, there being no failure of major importance. The load on the system has shown an increase over that existing during the previous year, the average monthly energy generated being about 29 per cent greater and the average monthly peak being about 17 per cent greater during 1932 than in 1931.

There has been only one interruption to service during the year, it being necessary to shut down the generator due to flashing at the upper collector ring. The ring was rubbed down, a new set of brushes installed and service restored after one hour and fifty-three minutes.

A small amount of maintenance work has been carried out on the major equipment during pre-arranged plant shut-downs. Permanent repairs were effected on the damaged collector ring and exciter. The turbine operating mechanism, governor system and auxiliary mechanical equipment have been inspected and overhauled where needed.

The 44,000-volt transmission line between the generating station and the Howey gold mine, which is owned by the Howey Gold Mines Limited, has been operated and maintained for them throughout the year under the same arrangement as in previous years. This transmission circuit has functioned perfectly during the year and has not been responsible for any interruption to service. Patrol and other work has been carried out along this transmission line throughout the year.

As required by the Lake-of-the-Woods Control Board the flow in the English river has been adjusted from time to time by means of the regulating dam at Ear Falls.

The precipitation in the vicinity of Ear Falls has been relatively low, approximating only nineteen inches during the year. Due to this low precipitation and a relatively high river flow, the level of LacSeul has been lowered approximately one foot during the year.

#### NIPISSING DISTRICT—LOADS OF MUNICIPALITIES—1930-1931-1932

Municipality	Peak load in horsepower			Change in load 1931-1932	
	Oct. 1930	Oct. 1931	Oct. 1932	Decrease	Increase
Callander.....	110.7	112.8	175.0	.....	62.2
Nipissing.....	3.0	3.0	3.0	.....	.....
North Bay.....	3,111.2	2,921.8	2,915.0	6.8	.....
Powassan.....	95.1	117.7	131.0	.....	13.3

#### NIPISSING DISTRICT—RURAL POWER DISTRICT LOADS—1930-1931-1932

Rural power district	Peak load in horsepower			Change in load 1931-1932	
	Oct. 1930	Oct. 1931	Oct. 1932	Decrease	Increase
North Bay.....	69.7	68.3	77.0	.....	8.7

#### NIPISSING DISTRICT—NEW RURAL POWER DISTRICT LOADS

Name	Date Connected	Load in horsepower		Decrease	Increase
		Initial	Oct. 1932		
Powassan.....	Nov. 1, 1931	2.0	2.0	.....	.....

#### SUDBURY DISTRICT—LOADS OF MUNICIPALITIES—1930-1931-1932

Municipality	Peak load in horsepower			Change in load 1931-1932	
	Oct. 1930	Oct. 1931	Oct. 1932	Decrease	Increase
Sudbury.....	3,799.0	3,967.8	3,667.5	300.3	.....

## SECTION III

### MUNICIPAL WORK

The Commission acts in an advisory capacity in connection with the operation of the "Hydro" utilities of the various municipalities with which it has contracts. In this connection the Commission arranges for the purchase, construction or extension of distribution systems and assists the municipal officials in making their financial arrangements to pay for the cost of these systems. All rate adjustments, as provided under *The Power Commission Act*, are recommended by the Commission, and a study of the operating conditions of all utilities is made annually and adjustments recommended accordingly. The Commission exercises a general supervision over the management and operation of all systems more especially in the smaller municipalities which, individually, are not of sufficient size to employ a manager with the technical knowledge necessary to administer properly all phases of the local system's operation.

In the case of the rural power districts, the Commission itself—on behalf of the corporations of the individual townships—operates the rural power systems, and distributes electrical energy to the customers of the respective corporations in any such rural power district.

### NIAGARA SYSTEM

The development at Chats Falls, constructed jointly by the Commission and the Ottawa Valley Power Company, which was recorded last year as having been put into operation in the latter part of 1931, was completed during 1932. In the Ontario portion of the generating station two 23,500-kv-a. generating units were put into service in October, 1931, and two additional units have been installed and put into service during 1932. A corresponding installation was made in the Quebec portion of the station. A new 220,000-volt transmission line was constructed during the year from the interprovincial boundary near Beaudet to Chats Falls generating station and placed in operation during the month of October, 1932. This line, together with the transmission lines already constructed from Chats Falls to Leaside, will deliver to the Niagara system the power obtained from the Beauharnois Light Heat and Power Company.



The load conditions on the Niagara system up to the month of August, 1932, continued to show reduction in the amount of power taken as compared with the previous year, but during the later months of the year there was some increase in load as compared with the load for the corresponding months of 1931. The loads on the systems of the Commission are referred to more fully in Section II of this report.

### **Dominion Power and Transmission Properties**

Progress has been made in connection with the properties formerly owned by the Dominion Power & Transmission Company, which Company, with subsidiaries, was purchased by the Commission in 1930. During the year 1932 the distribution system, substations and other properties of this Company situated in the city of Hamilton were sold to the Hamilton Hydro-Electric System, for \$2,125,000 and the system in the city of Brantford was sold to the Brantford Hydro-Electric System for the sum of \$200,000. Negotiations are being carried on with the St. Catharines Public Utilities Commission for the purchase by it of the subsidiary company in that city. Arrangements have been made for transferring the rural distribution lines of the Dominion Power & Transmission Company to the Hydro rural power districts already established in this general area.

### **Interruptible Off-Peak Power**

Although the Niagara System of the Commission has a high load-factor it has, of course, daily and seasonal peaks, thus there are periods of the day and of the year when large amounts of surplus "off-peak" power are available. When "off-peak" power is sold with the stipulation that the supply may be interrupted at the will of the vendor, it is termed "at will" or "interruptible" power. "Off-peak" power, however, on account of the uncertainty of the times and durations of the system peaks, is not sufficiently dependable for ordinary industrial uses. A limited amount of such power can be utilized by large special industries in certain heating and electro-chemical processes. Although Canadian consumers are at all times given priority of consideration, the chief market for the "at-will" or "interruptible" power which the Commission has had at its disposal on the Niagara system has hitherto been in adjacent territory in the United States served by supply systems securing a large proportion of their power from steam plants. Such systems, by utilizing, when available, this interruptible off-peak power can conserve their fuel supplies. The sale of this power to the Canadian Niagara Power Company for use in the United States has enabled the Commission to employ profitably its generating equipment at times when not required to take care of the demands of the Niagara system. During the past year, however, owing to economic conditions, there has been no market in the adjacent United States territory for "at-will" power.

### **Surplus Power can be Profitably Employed for Steam Generation**

Owing to the decrease in the growth of load on the Niagara system due to the curtailment of activity by many large consumers of power, the Commission at the present time has a surplus of power in the Niagara system. Arrangements are being made to dispose of some of the surplus power on an "at-will" basis to large industries in Ontario for special purposes, among which is the production

of steam through electric-steam boilers. These arrangements will continue until the power is required for the normal uses of the municipalities. It is to be noted that power sold for these special purposes replaces imported coal.

#### **Engineering Assistance to Municipalities**

General engineering assistance was given during the year to practically all of the municipalities in the Niagara system, by a general supervision of management and operation.

Estimates and work in connection with the rebuilding of distribution systems to take care of various conditions was undertaken during the year and additional transformer capacity provided where necessary in the following places:—Agincourt, Amherstburg, Aylmer, Blenheim, Clifford, Chatham, Dashwood, Drayton, Dresden, Exeter, Fergus, Goderich, Harrow, Highgate, Markham, Otterville, Preston, Ridgetown, Rodney, St. Marys, Springfield, Tilbury, Wallaceburg and Wellesley.

Certain municipalities received special engineering advice and assistance regarding a number of matters, which are more fully referred to as follows:

**Arkona**—The local distribution system was changed from 4,000 to 8,000 volts in order to improve the service and provide for future increase in load.

**Beachville**—Increased use of appliances by domestic consumers necessitated the rebuilding of the greater portion of the distribution system. The work was undertaken by the staff of the Woodstock rural power district under the direction of the Commission's engineers.

**Bridgeport**—On the completion of the new substation north of Waterloo, Bridgeport was served from this source instead of from the lines of the Kitchener Public Utilities Commission.

**Forest**—A new outdoor-type substation was constructed to replace the indoor substation which was destroyed by fire early in the year. In this substation were installed three 75-kv-a. transformers to step up from 4,000 to 8,000 volts to supply the village of Thedford and Arkona as well as the Forest rural power district.

**Norwich**—The Norwich substation was redesigned and changes were made to the distribution system. These changes included the installation of an underground feeder from the station.

**Scarboro Township**—A new substation was erected at West Hill and for the area east of Scarboro village, the distribution circuits in the eastern end of the township were rearranged to take service from this new station.

**Strathroy**—A new municipal substation of 1,500 kilowatt capacity has been erected this year. The feeder capacity of the distribution system has been increased.

**Streetsville**—Estimates were submitted to the Council of the village covering the cost of rebuilding the distribution system to make it suitable for a supply of power from the Niagara system. Assistance was given to the village in preparing enabling and money by-laws.

**Thedford**—The distribution system was changed, and the voltage of supply raised from 4,000 to 8,000 volts. This is to provide improved service to the present consumers and permit of the supplying of an additional load of 90 horsepower to a celery cold storage plant.

**Tillsonburg**—The ornamental street lighting system, consisting of forty-eight 500-watt multiple lamps in ornamental standards fed by an underground system, was completed and put in operation.

### GEORGIAN BAY SYSTEM

Very little change occurred in the power demands of this system during the year and the average energy consumption and maximum peaks in the various municipalities remained practically constant with conditions which prevailed during the previous year. There was, however, considerable expansion in the rural power districts, both in the summer resort sections and in the farming and hamlet communities. This activity in the rural districts is accountable for the slight increase in the system demand over the previous year.

The properties of The Mildmay Electric Light Company serving the village of Mildmay, and The Formosa Electric Light Company serving the hamlet of Formosa and adjacent district, were purchased by the Commission and negotiations are now pending covering the sale of the distribution system in the former to the corporation; arrangements are also nearly completed for merging the latter company's properties into the Bruce rural power district.

Reconstruction of local distribution systems was undertaken in five municipalities to provide better service and to readjust the original lines and equipment to meet the conditions of existing and future loads. Transformer changes were made at three existing substations to provide increased capacity for growth of load, and a new substation was provided at Falkenburg to provide service to the new Baysville rural power district.

A new rural power district was opened up in Muskoka known as the Baysville rural power district serving the hamlets of Baysville and Dorset, and the entire summer resort area south of the Lake-of-Bays.

General engineering assistance and advice concerning the management and operation of the various local distribution systems, also assistance in connection with the application of rates and the submission of information to power and lighting customers was rendered to all of the municipalities throughout the district.

Estimates and work in connection with the rebuilding of distribution systems, to take care of various conditions, was undertaken during the year and additional transformer capacity provided where necessary in the following places:—Bradford, Hanover, Markdale, Orangeville and Port McNicoll.



Engineering advice of a special nature in connection with matters referred to was given to the following municipalities:—

**Alliston**—Plans and specifications were prepared and estimates submitted by the Commission covering the complete rehabilitation of the local distribution system. The work was performed by the Commission's construction department.

**Formosa**—The Formosa Electric Light Company originally serving this hamlet and adjacent district was purchased by the Commission and arrangements are now pending for merging all of the lines formerly owned by the private company into the Bruce rural power district.

**Grand Valley**—The local distribution system was completely reconstructed by the construction department of the Commission at the request of the municipality. The lines and equipment now conform to present-day standards and existing load conditions.

**Mildmay**—Money and enabling by-laws were submitted to the ratepayers and carried by large majorities in connection with supplying this municipality with power from the Georgian Bay system.

### EASTERN ONTARIO SYSTEM

This system includes the Central Ontario, St. Lawrence, Rideau, Ottawa and Madawaska districts. The area served lies east of Dunbarton, Lake Scugog, Lindsay and Balsam lake.

The power supply is from developments owned by the Commission on the Trent Canal system and on the Mississippi and Madawaska rivers. Power is purchased from the Gatineau Power Company, the Cedar Rapids Transmission Company, the Rideau Power Company, the Corporation of Campbellford and the Beach Estate at Iroquois.

The Commission controls or has an interest in a number of undeveloped water-power sites on the Ottawa, Mississippi and Madawaska rivers, from which sites power can be made available when warranted by the demand. At present the growth of load is met by increases in the power purchased under contract with the Gatineau Power Company.

Owing to improved water conditions on the Trent Canal system, it was not necessary to call on the Gatineau Power Company for power in advance of the contract obligations as in previous years.

General engineering assistance and advice was given to municipalities concerning the management and operation of the various local distribution systems.

Estimates and work in connection with the rebuilding of distribution systems, to take care of various conditions was undertaken during the year and additional transformer capacity provided where necessary in the following places:—Deseronto, Napanee, Omemee, Stirling, Wellington and Williamsburg.

Certain municipalities received special engineering advice and assistance regarding a number of matters, which are more fully referred to as follows:

**Bath**—The construction of the electrical distribution system in the village of Bath was completed and service was made available on November 4, 1931.

**Belleville**—The Belleville Hydro-Electric System opened its new offices on September 26. The building was officially opened by the Hon. J. R. Cooke.

**Bobcaygeon**—Estimates on the cost of power to this municipality were prepared and submitted to the municipal officials. A public meeting was held at which the estimates were fully explained.

**Cobourg**—The electrical distribution system and waterworks purchased from the Commission by the municipality were operated during the year for the Corporation by the Commission. It is expected that these utilities will be operated and administered by a public utilities commission on January 1, 1933.

**Colborne**—The municipal council requested the Commission to assist it in negotiating the purchase of the local distribution system from the Peebles Estate. A valuation of the local plant was made and the question of purchase will be submitted to the electors on November 21, 1932.

**Iroquois**—Estimates were prepared and submitted to the corporation on the delivery of 100 and 200 horsepower.

**Morrisburg**—The corporation requested estimates on the delivery of 100 and 200 horsepower from the lines of the Commission. The estimates were forwarded to the corporation.

**Newcastle**—An extension of the Newcastle distribution system to Newcastle-on-the-Lake was authorized and will be completed next spring.

**Norwood**—The Commission has undertaken rebuilding a part of the local distribution system necessitated by the improvements being made by the Government Highways department.

**Peterborough**—Estimates were prepared and engineering assistance rendered to the local utilities commission in constructing a new 44,000-volt line from Auburn station to the Peterborough municipal station and in making certain changes in the municipal station. The Commission carried out the work of changing the switching arrangements at Auburn station to accommodate the new line.

**Warkworth**—On order of the Ontario Railway and Municipal Board the municipal boundaries of the police village of Warkworth were enlarged to include suburban areas already served by the municipal electric system.

**Westport**—This municipality first received service on November 14, 1931, being served from the station at Forfar.

## **THUNDER BAY SYSTEM**

The effect of the depression on the demand for power in the pulp and paper industry, and in the grain trade, is still in evidence in the load of the Thunder Bay system. The average load was 5,440 horsepower less, and the maximum system peak was 5,494 horsepower less than during the previous year. It is hoped that one of the large pulp and paper mills which has been shut down will resume partial operation in 1933.

Considerable expansion has taken place during the year in rural districts adjacent to Port Arthur and Fort William. Port Arthur rural power district located north and east of Port Arthur was inaugurated and placed in operation involving the construction 9.71 miles of rural line, and arrangements were also completed for the formation of the Fort William rural power district located immediately west of Fort William.

Engineering assistance and advice covering the management and operation of the various distribution systems was given to the cities of Fort William and Port Arthur and the village of Nipigon, which together comprise the system.

## **NORTHERN ONTARIO SYSTEM**

### **Nipissing District**

A new substation of 150-kv-a. capacity was constructed at Callander to provide power for a large planing mill, and the rural area previously served adjacent to the village of Powassan was considerably extended to provide service to new farm customers.

### **Abitibi District**

This district comprises the entire area which may be served at 25-cycles from the Hunta-Sudbury transmission line. Assistance and information was given to prospective mining companies concerning the cost of power available in the district.

### **Sudbury District**

This district comprises the entire area adjacent to Sudbury which may be served at 60-cycles from the power developments on the Wanapitei river. Information was submitted to various areas adjacent to the city of Sudbury in



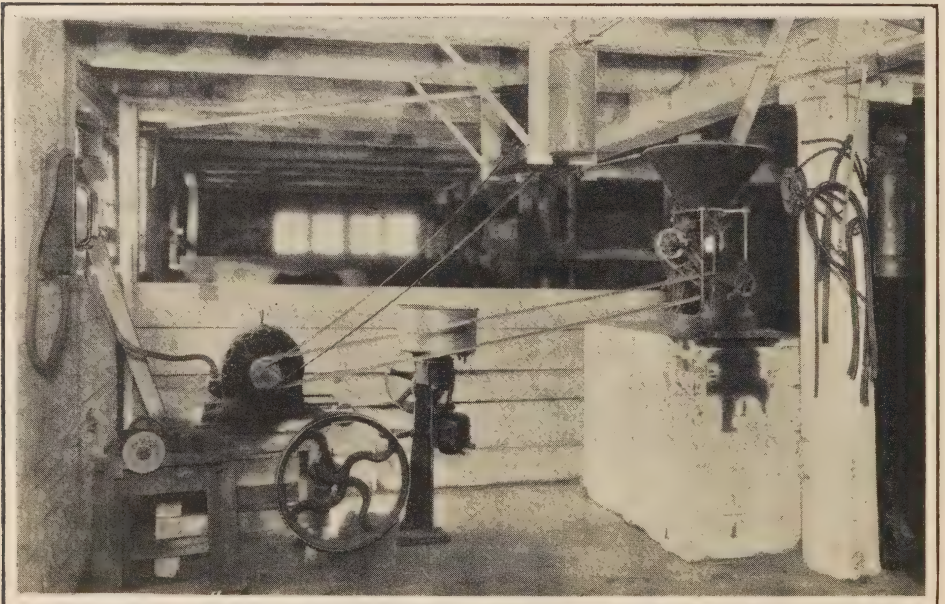
connection with rural service and several conferences and meetings were held. Assistance was given to the town of Capreol in the construction of a new sub-station and negotiations were conducted with the Canadian National Railway covering the purchase of its transmission line between Sudbury Junction and Capreol.

### Patricia District

Assistance in connection with the utilization of power was given to a large gold mine, the only customer at the present time being supplied from the Ear Falls development. Information concerning cost and utilization of power was also submitted to other prospective mining customers in the district.

### Manitoulin District

This district comprises the entire island of Manitoulin and was formed during the year for the purpose of giving power to a section of the island adjacent to Gore Bay and Mindemoya. Arrangements were made for the construction of distributing lines and a transformer station. Power is being obtained from the Kagawong development of The Little Rapids Pulp Company and it is expected that the work will be completed and service delivered early next year.



RURAL ELECTRICAL SERVICE IN ONTARIO

The three-horsepower motor illustrated is used in the barn to drive a chopping mill, a milking machine, a cream separator and a jack shaft and emery stone



#### RURAL ELECTRICAL SERVICE IN ONTARIO

Brings to the farm home the conveniences enjoyed by city dwellers

### RURAL ELECTRICAL SERVICE

The Commission first supplied electrical service to rural consumers about twenty years ago. In the earlier years this service was supplied to townships and for the most part the rural consumers were reached by extensions to existing urban and suburban distribution networks, or by lines from stations serving urban municipalities. The progress made was successful in certain thickly populated sections, but the policy of serving townships as a unit did not permit an economic distribution in thinly populated areas. By 1920, some 2,200 rural consumers were served, but the aggregate rural load was less than 500 horsepower. In 1920, amendments to *The Power Commission Act* provided for the formation of rural power districts and in 1921 and 1924 special rural Acts were passed by the Provincial Legislature providing for the payment of Provincial "grants-in-aid." These legislative enactments;\* the special consideration given to rural electrical service; and the experience gained and put into practice by the Commission, have resulted in a remarkable growth in rural electrical service in Ontario. This is well shown by the accompanying charts. There is, indeed, no branch of the Commission's activities to which, during recent years, more detailed consideration has been given than its department of rural electrical service.

The policy and practice of the Commission has been, and is, to make a distribution of electrical energy as widespread as possible, and to extend to every community that can economically be reached by transmission lines the benefit of electrical service. In harmony with this policy, the supplying of electrical service to rural districts has been undertaken according to a compre-

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\*Re Rural Power District Legislation:—Consult *The Power Commission Act* (R.S.O. 1927, ch. 57); *The Rural Hydro-Electric Distribution Act* (R.S.O. 1927, ch. 59); *The Rural Power District Loans Act, 1930* (20 Geo. V, ch. 14), and *The Rural Power District Service Charge Act, 1930* (20 Geo. V, ch. 15).



hensive and carefully thought-out programme. For the purpose of electrical service in rural Ontario, rural power districts are formed in the more closely settled portions of the Province traversed by transmission lines. A typical rural power district covers about 100 square miles. Its boundaries are not arbitrary geographical limits—such as define, for example, the areas of townships—but depend rather upon the economic distances which may be served from a distribution centre of city, town or village or other sources where suitable power is available. It should be appreciated that without such transmission networks as have been constructed to serve the cities and towns of the Province, any extensive rural electrification would be economically impracticable.

It must, however, be recognized that rural electrical service is essentially a community interest and to attain its greatest success must have the whole-hearted support of all rural dwellers. Co-operation is the keynote of success. Primarily, rural service is made possible by the great networks of transmission lines which have been constructed to serve urban municipalities. These networks afford a base from which rural primary lines may economically be extended over wide areas of the more closely settled parts of rural Ontario. Thus there is co-operation between the urban and rural citizens. The growth in the mileage of rural lines during recent years has been so rapid that at the present time the aggregate length of such lines exceeds the mileage of the main transmission lines built to serve urban centres. In the rural power districts the transmission lines which serve the individual farmers can also carry electrical energy to churches, schools and stores, as well as provide power for factories utilizing agricultural products as their raw material. Thus, co-operation produces the greatest benefit to all and results in lower costs.

The experience gained by the Commission and the improvements in technique, enable electrical service to be given to rural districts when there can be secured three signed farm contracts, or their equivalent, per mile of line to be constructed.

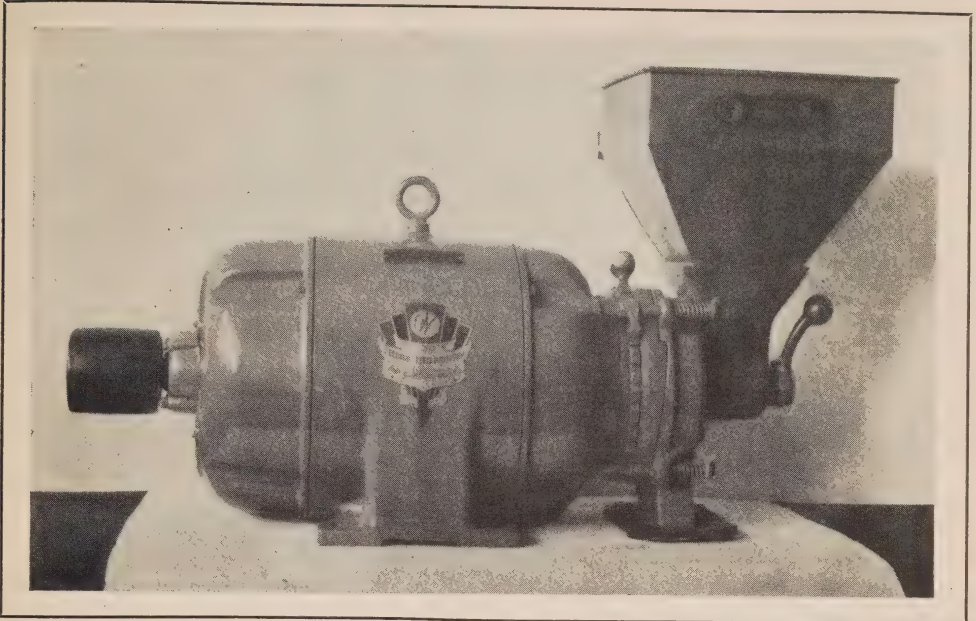
#### **Provincial Government Aids Rural Service**

The Province of Ontario recognizes the importance of electrical service to the agricultural industry and gives assistance to rural residents in three ways, namely:

First—A grant-in-aid toward the initial capital cost of supplying electrical service, amounting to fifty per cent of the cost of line and secondary equipment necessary to deliver power from the supply point of city, town, village, etc., to the customer's property. This is the maximum amount provided for by *The Rural Hydro-Electric Distribution Act*.

Second—Authority has been granted by the Province to the Commission in *The Rural Power District Service Charge Act, 1930*, to fix a maximum service charge for any class of service rendered by the Commission in a rural power district. Where as may be the case in newly established rural power districts such maximum service charge is not sufficient to meet the necessary cost of service, as specified by the Commission, the deficit is chargeable to and payable out of the Consolidated Revenue Fund of the Province. Payments made out of the Consolidated Revenue Fund for this purpose, on account of any rural power district, are charged to that rural power district in a special account—known as the “Rural Power Service Suspense Account”—in the books of the Treasurer of Ontario, and any surplus thereafter arising from any maximum





#### RURAL ELECTRIC SERVICE IN ONTARIO

Horizontal chopper in which a  $1\frac{1}{2}$  horsepower motor is used for 25-cycle and a 2-horsepower motor is used for 60-cycle service. The power take-off operates at motor speed. The plates are separated when using the motor for other purposes than chopping

service charge in that rural power district is to be paid to the Treasurer of Ontario and placed to the credit of the rural power district in such suspense account until the deficit is extinguished. Where a temporary deficit arises in any rural power district owing to the application of the maximum service charge, such maximum service charge must remain in force and be charged in that rural power district until the deficit is extinguished.

A tabulation set out on an accompanying page shows the present maximum service charge placed in effect on January 1, 1930.

Third—An Act—*The Rural Power District Loans Act, 1930*—to provide for granting aid towards the installation of electrical works in rural power districts was passed during the year 1930. The purpose of this Act is to provide advances towards the installation of electrical services in rural power districts, subject to regulations. Aid may be granted subject to such regulations and repayments, or the wiring from the transmission or distribution lines of the Commission into and throughout dwellings, farms, outhouses, and any other works which may from time to time be specified by the regulations. In addition to the wiring, loans may be obtained on transformers, motors, or other appliances, as may be necessary or expedient for any industrial, agricultural or domestic purpose which may be specified in the regulations.

#### Rural Loans

Loans have been made to an increasing number of rural consumers to aid them in financing the cost of wiring their premises and the installation of motors.

grain grinders, pumping systems, milling machines and washing machines—all made possible by the passing of *The Rural Power District Loans Act* in 1930.

Up to October 31, 1932, there have been 352 applications for loan received since the Act was put into force. Of these, 226 were received during the last fiscal year. Out of the total number of 352 applications, 17 have been withdrawn by the applicants; 37 have been either ineligible for loan due to conditions or the applicants have failed to conform to the regulations—approval to these has not been given—and 37 applications are pending the receipt of information from the field to enable the Commission to approve them. In all 261 applications have been approved and loans granted up to October 31, 1932; of these 187 were approved during the past fiscal year, an increase of 113 over the previous year.

Out of the total number of applications approved and granted:

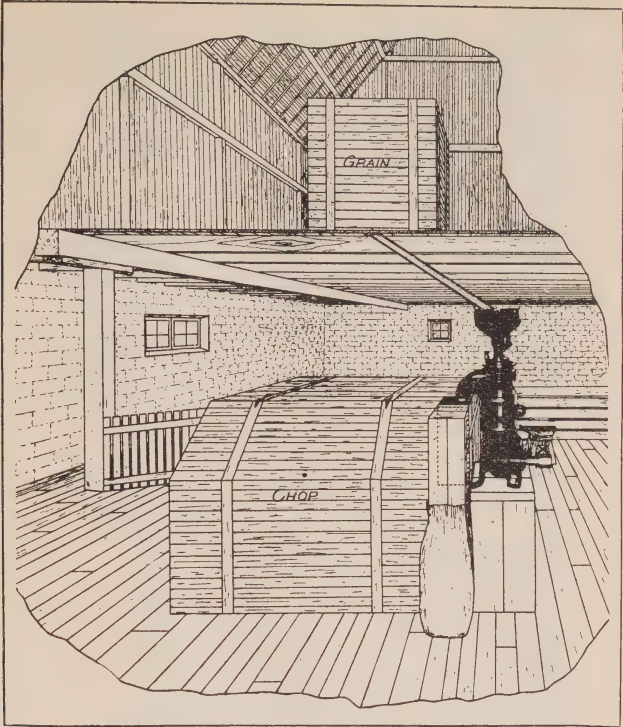
166	covered applications from	Niagara system.....	Total	\$36,260
76	“ “ “ “	Georgian Bay system.....	“	21,727
19	“ “ “ “	Eastern system.....	“	5,715
261		All systems.....	Total	\$63,702

The total amount of loans approved up to date is \$63,702, of which \$40,160 was advanced during the past year, an increase of \$15,618 over 1930-31. The average loan amounts to about \$245.

With respect to the 261 loans actually made, the following table shows the number of applications in which the different items enumerated in the regulations were applied for, also the cost to the consumers of these items. In many cases the amount approved or applied for was substantially less than the actual cost of the equipment or wiring to be financed, as frequently the consumer did not wish to borrow up to the full amount of the cost of his installation or the Commission felt that the security would be more satisfactory if the amount of loan granted was less than the cost of the installed equipment.

DETAILS OF RURAL LOANS GRANTED UP TO OCTOBER 31, 1932

Items applied for (including installation) in loans which have been paid	Totals for 74 applications granted in 1930-31		Totals for 187 applications granted in 1931-32		Totals for all applications to Oct. 31, 1932	
	Number of appli- cations affected	Cost to consumers	Number of appli- cations affected	Cost to consumers	Number of appli- cations affected	Cost to consumers
		\$ c.		\$ c.		\$ c.
Service from road.....	60	3,484.80	91	4,756.27	151	8,241.07
House wiring.....	63	7,860.79	90	8,077.36	153	15,938.15
Barn and building wiring	60	6,160.49	87	7,452.80	147	13,613.29
Motors.....	16	1,545.30	15	1,507.96	31	3,053.26
Grain grinders.....	15	2,489.50	95	16,985.76	110	19,475.26
Pumping systems.....	6	616.50	8	849.03	14	1,465.53
Milking machines.....	2	675.00	2	405.00	4	1,080.00
Washing machines.....	15	1,734.00	8	934.00	23	2,668.00
		24,566.38		40,968.18		65,534.56



RURAL ELECTRICAL SERVICE IN ONTARIO

Suggested set-up of farm chopper with the grain supply above and the chop box below with bagger attachment so that chop may be transferred to other buildings. When chop is being delivered to the bin no attendance is necessary

Respecting the 261 applications which have been granted, the following table shows the number of loans approved for each term of years from one to ten years:

One year term.....	4 loans	Six year term.....	5 loans
Two " ".....	2 "	Seven " ".....	72 "
Three " ".....	18 "	Eight " ".....	8 "
Four " ".....	8 "	Nine " ".....	0 "
Five " ".....	106 "	Ten " ".....	38 "
		Total.....	261 "

Up to the present time 10 loans have been paid up in full, either through the fact that the loans matured or because of the improved financial position of the loanee.

The assistance given by the Province in these several ways is in pursuance of a long-established governmental policy of promoting the basic industry of agriculture. This policy had previously found expression in the establishment of agricultural schools, colleges and experimental farms, in assistance for farm drainage, road building and in other ways. The grants-in-aid and guarantees thus given make it possible to extend hydro-electrical power service to those engaged in and connected with agricultural pursuits in less densely populated districts where otherwise such service would not be financially feasible.



The extent and effect of the Province's financial assistance with respect to the distribution of power in rural districts should be clearly understood. The Government grant-in-aid relates solely to the initial capital investment for distribution facilities in rural power districts only. Having made its grant-in-aid, the Government further participates in the operation of each district in that it guarantees a maximum service charge, otherwise its participation in the operation of the property ceases. Each rural power district not only pays the cost of operation, maintenance and administration of its lines, but also sets up reserves for renewals, obsolescence and contingencies on the whole of the equipment and lines, as well as for sinking fund on the investment made by the Commission on behalf of the townships served.

The accompanying diagrams and tables illustrate the expansion of rural electrical service in Ontario during the last twelve years. The greater area covered is shown by the increased mileage of primary lines approved. The increase in the use of electricity by the farming communities is shown by the aggregate power loads supplied to the rural power districts.

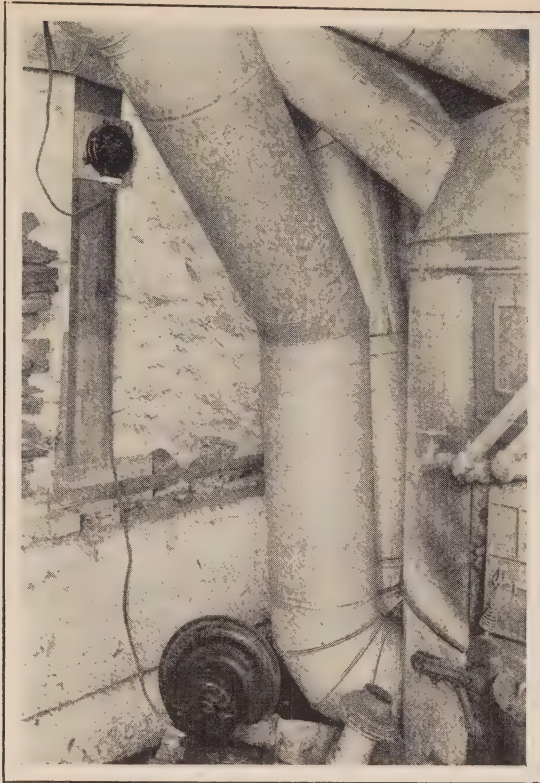
It is believed that further substantial progress will be made in the next few years. An outstanding reason for this growth is the extent to which the Commission has gained the confidence of the rural communities through efficiency in the construction of lines, through progressive reductions in rates and by a continuity of service which has contributed very materially to progress by inspiring confidence in the use of electrical power-driven machinery.

Concurrently with the development of rural service the Commission has made studies in connection with the efficient use of electricity on the farm. Investigations are constantly being made regarding problems involving efficient electrical rural service. As an example of this type of activity, the Commission during the past few years has made studies for the purpose of discovering the fundamentals involved in grinding grain. These studies disclosed that the type of machine being used was of low mechanical efficiency. As a result the Commission has developed a new type of plate of the toothed variety and made of hard alloy steel. This plate shears the grain and the product is of a granular texture which is believed to be the type desired by the farmer.

### The Year's Activities

During the fiscal year 1931-32 there were constructed or under construction some 526 miles of primary transmission line in the rural power districts of Ontario, which was less than half the mileage constructed each year for the past five or six years. The mileage constructed in the year 1931-32, however, exceeded that constructed during the two-year period 1924 and 1925, and in view of the exceptional economic conditions which have very seriously affected agricultural operations and prices, must be regarded with satisfaction. Electrical service was given to 3,933 additional consumers. The capital expenditure approved for rural construction work during the past year was \$1,123,741, and the aggregate peak load in October, 1932, reached 32,853 horsepower. Details of these matters and of the present status of rural distribution are presented in the accompanying tables. For the coming year, arrangements have been made to construct about 600 miles of additional rural lines.

The engineers of the Commission attended, during the past year, a number of public meetings throughout the Province, held for the specific purpose of explaining to prospective consumers the rates at which electrical power could.



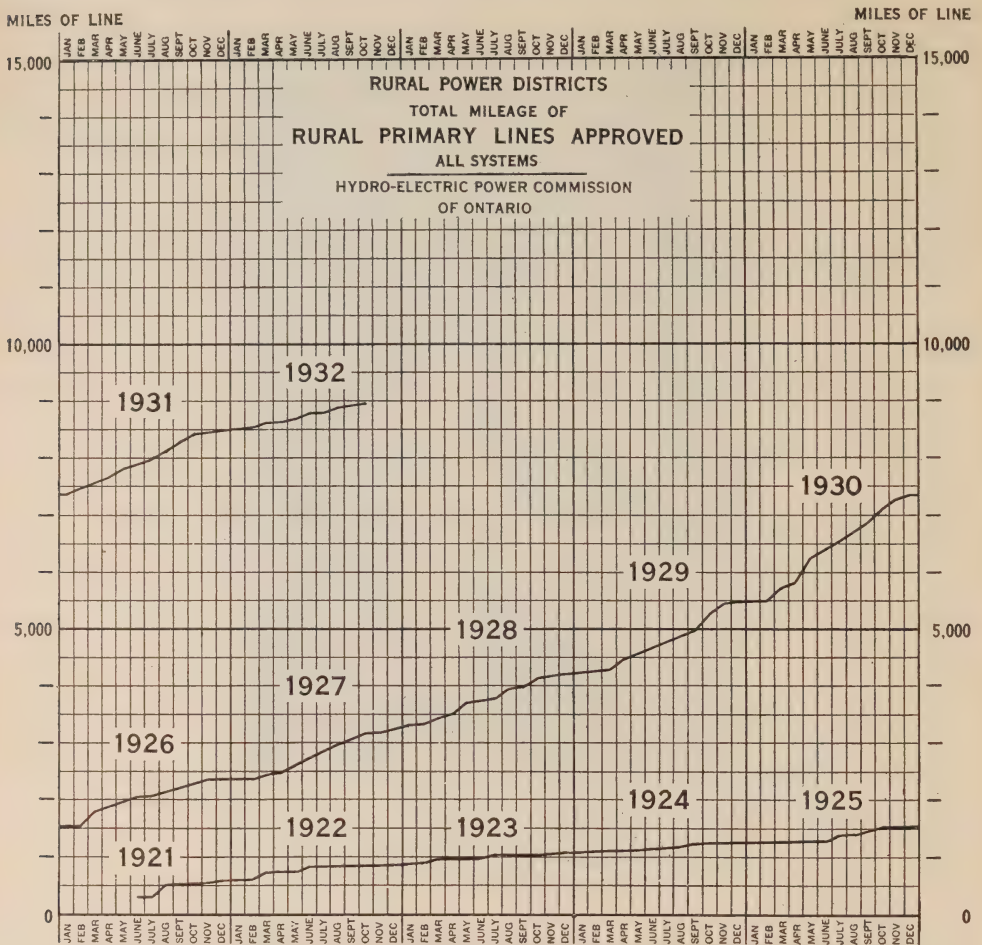
#### RURAL ELECTRICAL SERVICE IN ONTARIO

An electric blower on the house furnace. Permits the use of small size coal and automatic control of temperature

be supplied, the uses which can be made of power on the farm and the procedure necessary to obtain service. Where possible, moving pictures were shown, illustrating the uses of electricity on the farm. The provincial statutes relating to rural distribution were explained, pamphlets were distributed, and assistance was given to local committees appointed to canvass their respective districts.

The Commission also co-operated with the Provincial Department of Agriculture by giving similar talks to students taking short-course lectures at the Agricultural College at Guelph, and at other centres. Representatives of the Commission also attended provincial ploughing matches and arranged to give information to a large number of interested farmers. The manufacturers of electric motors and other equipment used in connection with power on the farm co-operated with the Commission in giving demonstrations at various places, showing actually how power can advantageously be employed by the farmer.

During the past year not only has the power taken by the rural power districts increased because of increased mileage of transmission lines and the demand of the consumer connected to these new lines, but the demand for power has also increased due to the greater use of electricity on the farms already served and due to the connection of new consumers to existing lines. Furthermore,



many townships have installed—in districts where the conditions warrant—street-lighting systems on the public highways. To supply these increased loads, new substations have been constructed and the capacities and number of lines have been increased.

The tabulation on page 71 shows the extensions approved during the year, the number of consumers, the amounts of power supplied, the capital expenditures and the amounts of provincial grant-in-aid of rural lines approved by the Government.

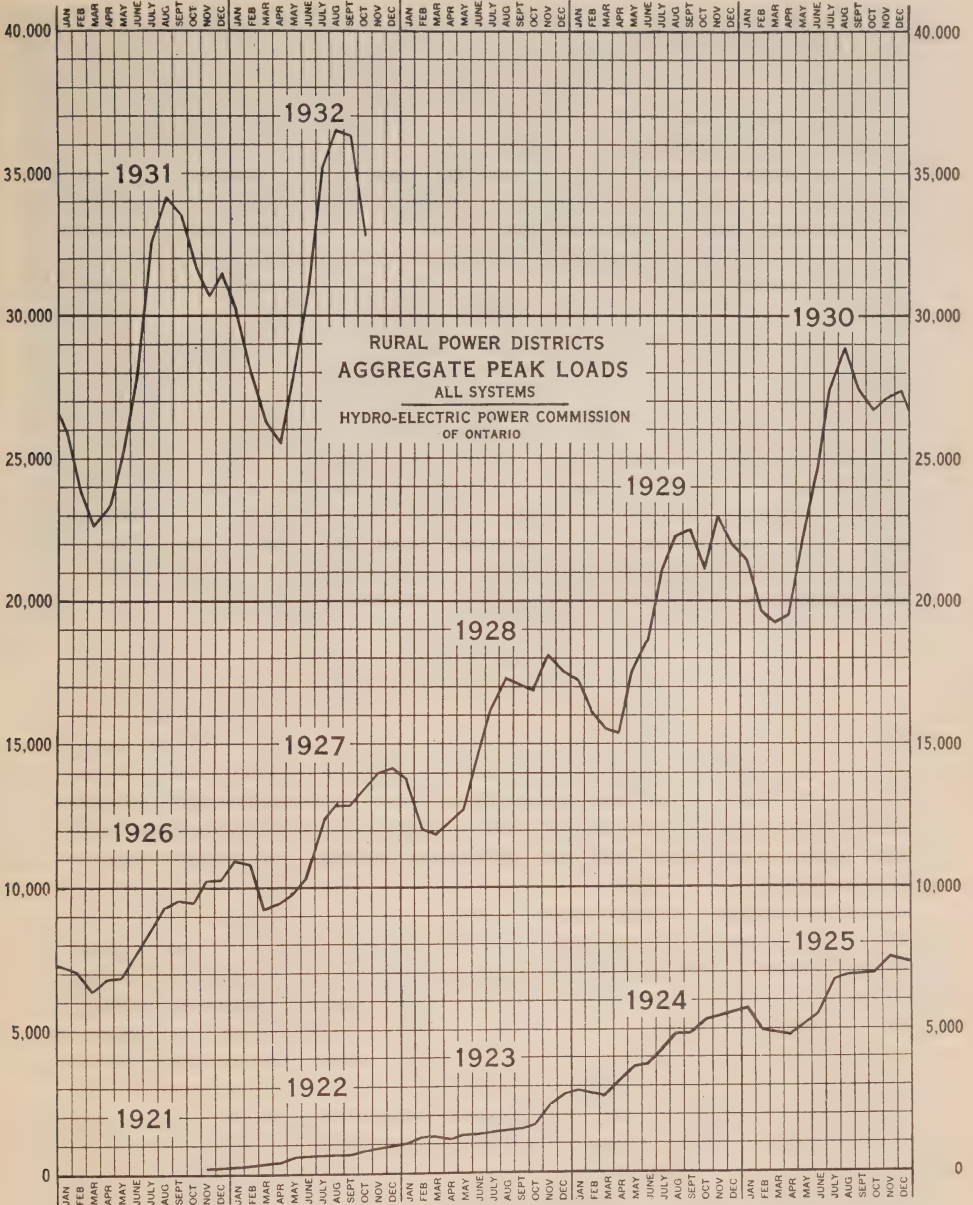
Rates for Rural Electrical Service

Rates to rural consumers are based upon service “at cost”—proper account, of course, being taken of the provincial grant-in-aid for rural work and the operation of the provision for a maximum service charge—and as in urban centres the rates are made up of two parts, a service charge and a consumption charge. In any given rural power district the service charge to a consumer depends primarily upon the individual connected load or demand which determines his class rating (see “Classification of Services”) but this is modified in the earlier



HORSEPOWER

HORSEPOWER



years of operation of a rural power district by the provision respecting maximum service charge; the consumption charge is in the form of a first and second kilowatt-hour charge and is largely determined by the cost of power at the source of supply to the rural power district.

An important factor in connection with rural power supply is the stability of the rates charged. Since service is given at cost and since it is the policy to give service whenever economically practicable, it is necessary, in the interests of the rural consumers themselves, to ensure by contract a certain minimum return from each mile of line constructed. Otherwise, if one or two prospective



RURAL ELECTRICAL SERVICE IN ONTARIO

Grading tobacco by use of artificial sun lamp developed for this purpose

consumers failed to take service, it would place an unfair burden upon those who did. Experience has led the Commission to adopt the safe policy of constructing rural lines only when sufficient contracts have been signed to guarantee payment of the fixed charges on their cost; the minimum signed contracts required being three ordinary farm contracts or their equivalent per mile of line constructed.

For the purpose of determining the service charge, each mile of line is assumed to represent a minimum of 15 units and to each class of service is assigned a value in such units. The accompanying Table gives this information and shows the annual and monthly service charges applicable to each class of service. It may be stated that more than 90 per cent of the contracts entered into for farm service are either of Class 2B or Class 3. These, therefore, are the representative classes for individual farm service.

Rather more than half the consumers in rural power districts are grouped in hamlets or small villages closely identified with rural activities, and these consumers are usually in Class 1B or Class 1C. It should further be understood that rural power districts do not include suburban districts or larger villages. These have their own electrical utilities.

All new rural power districts begin at standard rural rates and these constitute the maximum rates submitted to the proposed consumers. As the average number of consumers per mile of line increases, the service charges may be, and in practice have been, reduced; and with increased consumption the rates per kilowatt-hour are also lowered. Thus, in older-established rural power districts the total cost of service is much below the initial standard rates.

At the end of this section is given a tabulation of the rural power districts established in connection with the several systems of the Commission, which shows the miles of line, the number of consumers and the rate schedules for each district.



## RURAL LINE EXTENSIONS DURING THE YEAR 1932

System	Miles of primary line	Number of customers			Power supplied in October, 1932	Capital approved for extensions	
		Hamlet	Farm	Total		Total	Provincial grant-in-aid
Niagara.....	232.06	851	1,293	2,144	25,227	\$ 508,653.80	\$ 254,326.90
Georgian Bay.....	96.71	611	196	807	2,250	228,189.00	114,094.50
Eastern Ontario.....	119.18	415	246	661	5,208	259,164.00	129,582.00
Thunder Bay.....	41.55	41	124	165	89	69,678.00	34,839.00
Northern Ontario..	34.40	137	19	156	79	58,057.00	29,028.50
Total.....	523.90	2,055	1,878	3,933	32,853	1,123,741.80	561,870.90

## SUMMARY OF RURAL LINE EXTENSIONS

As Approved by the Commission from June 1, 1921, to October 31, 1932

System	Miles of primary line	Number of consumers			Capital approved for extensions	
		Hamlet	Farm	Total	Total	Provincial grant-in-aid
Niagara.....	6,467.58	21,630	21,623	43,253	\$ 14,254,200.63	\$ 7,103,820.31
Georgian Bay.....	785.95	3,732	1,659	5,391	1,620,978.01	778,940.52
Eastern Ontario.....	1,578.42	6,462	3,815	10,277	3,461,193.79	1,730,596.89
Thunder Bay.....	50.55	56	145	201	87,117.00	43,558.50
Northern Ontario.....	45.39	370	42	412	91,554.00	45,777.00
Total.....	8,927.89	32,250	27,284	59,534	19,515,043.43	9,702,693.22

## SERVICE CHARGES IN RURAL POWER DISTRICTS—SINCE JAN. 1, 1930

With Provincial Grant-in-Aid—25-cycle and 60-cycle Service

Class of rural service	Units per consumer*	Approx. number of customers per mile of line	Demand allowed consumer in k-w.	Kilowatt-hours per month at first rate	Gross annual service charge	Gross monthly service charge	Net annual service charge	Net monthly service charge
1B	2.25	6.8	1.32	30	\$ 18.00	\$ 1.50	\$ 16.20	\$ 1.35
1C	3.75	4.0	2.0	30	27.96	2.33	25.20	2.10
2A	1.90	8.0	1.32	30	20.64	1.72	18.60	1.55
2B	3.50	4.3	2.0	30	27.96	2.33	25.20	2.10
3	5.00	3.0	3.0	42	33.36	2.78	30.00	2.50
4	5.35	2.8	5.0	70	36.00	3.00	32.40	2.70
5	7.50	2.0	5.0	70	50.04	4.17	45.00	3.75
6A	12.50	1.2	9.0	126	62.04	5.17	55.80	4.65
6B	12.50	1.2	9.0	126	70.68	5.89	63.60	5.30
7A	20.00	0.74	15.0	210	92.64	7.72	83.40	6.95
7B	20.00	0.7	15.0	210	111.36	9.28	100.20	8.35

\* Before a rural primary line is constructed contracts equivalent to 15 primary units per mile must be signed. (For explanation of units see accompanying text.) Thus three Class 3 consumers at 5 units each equals 15 units. Service charges are adjusted so that each class of service bears its equitable share of the cost.

Note: For classification of services see page 78.



# RURAL POWER DISTRICTS—MILES OF LINE, NUMBER OF CONSUMERS AND RATES—OCTOBER 31, 1932

## NIAGARA SYSTEM

Rural power district	Miles of line	No. of consumers	Rural rates												Gross consumption charge	Prompt payment discount
			Class and gross monthly service charge													
			1st 14 hrs. use of class demand min. 30 kw-hrs.													
			1B	1C	2A	2B	3*	4	5	6A	6B	7A	7B	All additional		
			\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	cents	cents	%	
Acton.....	8.88	22	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Ailsa Craig.....	5.80	16	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6.5	2	10
N18 D9	3.87	8	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
N15 D3	58.67	583	1.30	2.33	1.60	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
N11 D2	113.17	605	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	10
N12 D4	22.19	76	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
N7 D1	83.37	417	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
N1 D4	150.43	1,440	1.20	2.11	1.56	2.11	2.50	2.72	3.78	4.67	5.33	6.94	8.39	3	1.5	10
N15 D2	37.08	370	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
N14 D3	58.51	308	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
N3 D3	149.01	1,464	1.10	1.98	1.46	1.98	2.36	2.55	3.54	4.39	5.01	6.56	7.89	3	1.5	10
N14 D10	34.55	132	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
N13 D2	43.77	166	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
N12 D1	111.69	528	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
N18 D8	33.31	114	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
N12 D2	51.08	249	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	10
N2 D5	96.96	482	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
N14 D1	137.70	785	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
N1 D7	23.41	177	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
N8 D11	64.44	346	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
N4 D3	122.27	643	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
N4 D1	107.67	582	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
N14 D12	24.22	76	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
N12 D5	56.92	253	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
N2 D1	93.78	717	1.30	2.21	1.63	2.21	2.64	2.85	3.96	4.91	5.60	7.33	8.82	3	1.25	10
N1 D9	16.80	93	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
		†	1.00	1.86	1.38	1.86	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3.5	2	10

Dutton.....	N11	D3	44.63	170	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Elmira.....	N7	D3	22.12	83	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Elora.....	N5	D4	44.79	252	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Essex.....	N15	D7	86.39	452	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	10
Exeter.....	N4	D6	64.72	601	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Forest.....	N18	D6	36.92	141	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Galt.....	N6	D2	38.93	306	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
Georgetown.....	N5	D2	54.87	264	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Goderich.....	N8	D2	39.14	162	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Grantham.....	N1	D2	57.83	781	1.00	1.50	1.25	1.86	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3	1.5	10
Guelph.....	N5	D3	90.79	530	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
Haldimand.....	N2	D8	48.21	260	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	10
Harriston.....	N8	D5	23.17	59	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Harrow.....	N15	D4	66.88	617	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	10
Ingersoll.....	N10	D3	174.65	593	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5.5	2	10
Jordan.....	N1	D3	34.21	371	1.05	1.86	1.38	1.86	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3	1.5	10
Keswick.....	N3	D5	52.98	960	1.20	2.10	1.55	2.10	2.50	2.70	3.75	4.65	5.30	6.95	8.35	4	2	10
Kingsville.....	N15	D5	119.63	1,365	1.00	1.80	1.25	1.98	2.36	2.55	3.54	4.39	5.01	6.56	7.89	3	2	10
Listowel.....	N8	D8	78.90	325	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
London.....	N4	D5	189.17	2,037	.90	1.65	1.15	1.75	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3	1.5	10
Lucan.....	N4	D5	31.89	128	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Lynden.....	N2	D2	48.04	250	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Markham.....	N3	D1	108.00	818	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Merlin.....	N14	D15	83.60	316	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Milton.....	N13	D3	58.65	328	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Milvorton.....	N8	D9	39.83	165	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Mitchell.....	N8	D7	65.70	332	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	10
Newmarket.....	N3	D4	61.53	326	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Niagara.....	N1	D1	52.82	303	1.20	2.15	1.63	2.21	2.64	2.85	3.96	4.91	5.60	7.33	8.82	3	1.5	10
Norwich.....	N10	D1	107.01	460	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
Oil Springs.....	N18	D3	18.74	117	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Palmerston.....	N8	D6	33.46	110	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Petrolia.....	N18	D5	13.96	58	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Preston.....	N6	D1	123.43	973	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.25	10

\*See footnote on page 78. †Lowbanks extension. ‡Suburban area.

RURAL POWER DISTRICTS—MILES OF LINE, NUMBER OF CONSUMERS AND RATES—OCTOBER 31, 1932

Rural power district	Miles of line	No. of consumers	Rural rates													Gross consumption charge	Prompt payment discount
			Class and gross monthly service charge														
			1st 14 hrs. use of class demand min. 30 kw-hrs.														
			1B	1C	2A	2B	3*	4	5	6A	6B	7A	7B	cents	cents		
			\$ C.	\$ C.	\$ C.	\$ C.	\$ C.	\$ C.	\$ C.	\$ C.	\$ C.	\$ C.	\$ C.	\$ C.	%		
N14 D2	Ridgetown.....	685	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10	
N7 D2	St. Jacobs.....	363	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10	
N9 D1	St. Marys.....	413	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10	
N11 D1	St. Thomas.....	1,094	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10	
N17 D1	Salfleet.....	1,549	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10	
N15 D1	Sandwich.....	2,055	1.00	1.86	1.38	1.86	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3.5	1.5	10	
N18 D4	Sarnia.....	1,165	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10	
N3 D2	Scarborough.....	656	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10	
N8 D10	Seaforth.....	149	1.10	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10	
N12 D6	Simcoe.....	340	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10	
N1 D6	Stamford.....	297	1.30	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10	
N8 D4	Stratford.....	220	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10	
N4 D4	Strathroy.....	216	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10	
N13 D1	Streetsville.....	431	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10	
N8 D1	Tavistock.....	280	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10	
N14 D11	Thamesville.....	268	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10	
N14 D14	Tilbury.....	255	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10	
N10 D4	Tillsonburg.....	568	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10	
N14 D13	Wallaceburg.....	535	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10	
N12 D7	Walsingham.....	391	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10	
N8 D3	Walton.....	253	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10	
N2 D3	Waterdown.....	913	1.20	2.10	1.55	2.10	2.50	2.70	3.75	4.65	5.30	6.95	8.35	3	1.25	10	
N12 D3	Watford.....	285	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10	
N18 D7	Watford.....	56	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10	
N1 D5	Welland.....	2,568	1.00	1.86	1.38	1.86	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3	1.5	10	
N16 D1	Woodbridge.....	935	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	2	10	
N10 D2	Woodstock.....	647	1.30	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	2	10	

\*See footnote on page 78.



GEORGIAN BAY SYSTEM

Alliston.....	S32	D1	22.25	136	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Arthur.....	E13	D2	2.40	8	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Bala.....	GB13	D1	35.66	207	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Barrie.....	S4	D1	61.02	444	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Baysville.....	M10	D1	32.00	113	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Beaumaris.....	M7	D1	20.48	207	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Beaverton.....	W2	D1	11.75	187	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Beeton.....	S33	D1	1.63	5	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Bradford.....	S37	D1	26.85	83	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Bruce.....	E19	D1	46.48	197	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Buckskin.....	S24	D1	.94	15	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Cannington No.1	W3	D1	3.46	23	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Cannington No.2	W3	D2	5.30	25	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Chatsworth.....	E3	D1	.00	22	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Cookstown.....	S35	D1	.50	2	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Creemore.....	S10	D2	29.77	131	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Elmvale.....	S7	D1	25.35	156	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Flesherton.....	E1	D1	2.56	24	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Georgina.....	W2	D2	11.30	124	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Gravenhurst.....	M4	D1	2.40	12	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Hawkestone.....	S9	D1	25.31	148	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
Holstein.....	E7	D1	.70	9	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Huntsville.....	M2	D1	16.40	74	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Innisfil.....	S31	D1	25.09	434	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6.5	2	10
Lucknow.....	E24	D1	.10	2	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Mariposa.....	W9	D1	47.30	301	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Markdale.....	E1	D2	13.87	60	1.20	2.20	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	{6	2	10
Meaford.....	E14	D1	.87	5	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Medonte.....	S18	D1	8.37	50	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Midland.....	S1	D1	12.33	43	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Neustadt.....	E8	D1	.63	4	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Nottawasaga.....	S5	D1	7.84	93	1.25	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Orangeville.....	E12	D1	21.90	77	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Owen Sound.....	E2	D1	1.84	18	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Port Perry.....	W12	D1	45.95	328	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10

†Berkeley Station extension.

†Greenbank extension.

# RURAL POWER DISTRICTS—MILES OF LINE, NUMBER OF CONSUMERS AND RATES—OCTOBER 31, 1932

## GEORGIAN BAY SYSTEM—Continued

Rural power district	Miles of line	No. of consumers	Rural rates													Prompt payment discount
			Class and gross monthly service charge											Gross consumption charge		
														1st 14 hrs. use of class demand min. 30 kw-hrs.	All additional	
			1B	1C	2A	2B	3*	4	5	6A	6B	7A	7B	cents	cents	
E24 D2	3.63	12	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	8	2	10
E46 D1	10.00	41	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	6	2	10
E10 D1	12.39	41	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	6	2	10
W1 D1	29.53	226	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	4	2	10
E15 D1	21.95	111	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	7	2	10
S36 D1	7.50	31	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	8	2	10
M8 D1	18.50	100	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	8	2	10
W11 D1	59.96	206	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	6	2	10
Wasaga Beach.	15.82	583	\$ 1.25	\$ 3.00										5	2	10
Wroxeter.	34.89	273	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	8	2	10

Total, Georgian Bay System, 784.17; 5,391.

\*See footnote on page 78.

## EASTERN ONTARIO SYSTEM

Alexandria. ....	L15 D1	19.85	98	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	7	cents	2	10
Amprior. ....	QM10 D1	5.20	58	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	6	cents	2	10
Belleville. ....	C38 D1	74.51	633	\$ 1.20	\$ 2.15	\$ 1.45	\$ 2.25	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	4	cents	2	10
Bowmanville. ....	C23 D1	28.80	123	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	5	cents	2	10
Brighton. ....	C6 D1	10.01	63	\$ 1.35	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	6	cents	2	10
Brockville. ....	L3 D1	93.49	637	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	6	cents	2	10
Campbellford. ....	C11 D1	22.10	77	\$ 1.20	\$ 2.15	\$ 1.50	\$ 2.25	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	6	cents	2	10
Carleton Place. ....	H5 D1	1.58	1	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	6	cents	2	10
Chesterville. ....	L5 D1	47.60	343	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	6	cents	2	10
Cobourg. ....	C13 D1	82.85	434	\$ 1.35	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	5	cents	2	10
Colborne. ....	C7 D1	29.21	147	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	5	cents	2	10
Fenelon Falls. ....	C30 D1	18.06	128	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	6	cents	2	10
Iroquois. ....	L9 D1	88.65	430	Special.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Kemptville. ....	H9 D1	5.41	42	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	6	cents	2	10
Kingston. ....	C44 D1	104.70	657	\$ 1.50	\$ 2.33	\$ 1.72	\$ 2.33	\$ 2.78	\$ 3.00	\$ 4.17	\$ 5.17	\$ 5.89	\$ 7.72	\$ 9.28	5	cents	2	10

Lakefield.....	C18 D1	23.35	82	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Lindsay.....	C29 D1	13.03	70	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Martintown....	L13 D1	20.34	137	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Maxville.....	L14 D2	59.52	383	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
															6†	2	10
Millbrook.....	C25 D1	18.95	101	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Napanee.....	C43 D1	106.39	507	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Nepean.....	T1 D1	176.48	1,078	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
Newcastle.....	C22 D1	23.50	120	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Norwood.....	C31 D1	7.90	58	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Omeenee.....	C26 D1	3.00	2	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Oshawa.....	C24 D1	96.08	1,480	1.00	1.86	1.38	1.86	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3.5	2	10
Perth.....	H2 D1	14.28	54	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Peterboro.....	C20 D1	58.78	1,019	.63	1.16	.79	1.21	1.59	1.66	2.01	2.57	2.91	3.81	4.62	4	2	10
Prescott.....	L2 D1	37.50	198	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Renfrew.....	QM16 D1	5.50	9	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Smiths Falls....	H3 D1	53.45	326	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Stirling.....	C35 D1	29.83	110	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Trenton.....	C3 D1	41.67	202	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Warkworth.....	C49 D1	.33	6	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Wellington.....	C45 D1	89.16	376	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Williamsburg....	L7 D1	13.52	68	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10

Total, Eastern Ontario System, 1,523.58; 10,277.

†Apple Hill Section.

THUNDER BAY SYSTEM

Fort William....	P10 D1	39.54	148	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Port Arthur....	P2 D1	10.02	53	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10

Total, Thunder Bay System.... 49.56; 201.

NORTHERN ONTARIO SYSTEM

Manitoulin.....	FM1 D1	32.00	114	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
North Bay.....	Z4 D1	9.03	287	1.10	2.00	1.35	2.10	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Powassan.....	Z8 D1	3.40	11	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10

Total Northern Ontario System, 44.43; 412.

Total, all systems: Miles of line, 8,661.41. Number of consumers, 59,534.



### CLASSIFICATION OF SERVICES FOR RURAL POWER DISTRICTS

When contracts between the consumer and the township have been executed, users of power in townships are supplied with electric service under general classes with limitations as follows:

Class	Service	Class demand kilowatts	Phase	Volts	Fuse rating amperes (maximum)
1B	Hamlet Lighting.....	1.32	1	110	15
1C	" ".....	2	1	220/110	35
2A	House Lighting.....	1.32	1	110	20
2B	Small Farm Service.....	2	1	220/110	35
3	<b>Light Farm Service</b> .....	<b>3</b>	<b>1</b>	<b>220/110</b>	<b>35</b>
4	Medium Farm Service.....	5	1	220/110	50
5	" " ".....	5	3	220/110	35
6A	Heavy Farm Service.....	9	1	220/110	100
6B	" " ".....	9	1 and 3	220/110	60
7A	Special Farm Service.....	15	1	220/110	According to load
7B	" " ".....	15	1 and 3	220/110	According to load

**Class 1:** Hamlet Service—Includes service in hamlets, where four or more consumers are served from one transformer. This class excludes farmers and power users. Service is given under two sub-classes as follows:

**Class 1-B:** Service to residences or stores. Use of appliances over 1,320 watts permanently installed is not permitted under this class.

**Class 1-C:** Service to residences or stores with electric range or permanently installed appliances greater than 1,320 watts. Combinations of residence and store supplied from one service shall be not less than Class 1-C. Special or unusual loads will be treated specially.

**Class 2A:** House Lighting—Includes service to all residences that cannot be grouped as in Class I. This class excludes farmers and power users.

**Class 2B:** Farm Service, Small—Includes service for lighting of buildings and power for miscellaneous small equipment and power for a single-phase motor not exceeding 2 horsepower or an electric range (motor and range not to be used simultaneously) on a small farm of fifty acres or less.

**Class 3:** Farm Service, Light—Includes service for lighting of farm buildings, power for miscellaneous small equipment, power for single-phase motors not exceeding 3 horsepower and electric range. Range and motor are not to be used simultaneously.

**Class 4:** Farm Service, Medium Single-Phase—Includes service for lighting of farm buildings and power for miscellaneous small equipment, power for single-phase motors up to 5-horsepower demand or an electric range. Range and motor are not to be used simultaneously.

**Class 5:** Farm Service, Medium 3-Phase—Includes service for lighting farm buildings and power for miscellaneous small equipment, power for 3-phase motors, up to 5-horsepower demand, or an electric range. Range and motor are not to be used simultaneously.

**Class 6:** Farm Service, Heavy—Includes service for lighting of farm buildings and power for miscellaneous small equipment, power for motors up to 5-horsepower demand and an electric range, or 10-horsepower demand without an electric range. Single- or three-phase service will be given at the discretion of the Hydro-Electric Power Commission of Ontario.

**Class 7:** Farm Service Special—Includes service for lighting of farm buildings, power for miscellaneous small equipment, power for 3-phase motors from 10- to 20-horsepower demand and electric range. Single or three-phase service will be given at the discretion of the Hydro-Electric Power Commission of Ontario.

Note: Class 2B is the service usually supplied to small farms of fifty acres or less and Class 3 is the service usually supplied to ordinary farms of larger size. More than 90 per cent of new contracts for farm service are in one or other of these two classes

## SECTION IV

### HYDRAULIC ENGINEERING AND CONSTRUCTION

The year 1932 marked the completion of the development at Chats falls on the Ottawa river, to the stage at present decided upon. Eight units of 28,000 horsepower each are now installed, and the station has been on commercial load since October, 1931.

Various repairs and renewals at the Queenston-Chippawa and Ontario Power generating stations of the Niagara system have been carried out. The major items included were: a new approach span for the highway bridge crossing the Welland river in the village of Chippawa, and a new steel bridge replacing the temporary wooden bridge which carried Queen street over the railway that serves the power house at Queenston.

The weathering of the faces of the cliff, both at the Queenston station and at the Ontario Power station, necessitated the scaling of the loose and overhanging rock. This work was completed at both places during the year.

The banks of the canal and of the Welland river have been strengthened by rip-rap and by the planting of trees at such points as seemed desirable. Bridges and bridge sites have been kept in good condition by painting of steelwork and trimming of canal banks at the bridge heads. All construction camp buildings and shops, with the exception of a few required for storage purposes, have been salvaged, and the areas graded and restored.

Various studies of potential developments, storage sites and stream flow, for the streams throughout the Province, have been in progress and reports prepared.

The completion of work which had required a large designing and drafting force in the department made necessary a substantial reduction in the staff. Among those released were a number of men who had been in the employ of the Commission for several years. These, together with those who remain, formed a well-organized and well-trained force, especially adapted to the requirements of the Commission. It is regrettable that circumstances require the release of so many men who, in various technical capacities and for long periods, have served the Hydro undertaking so faithfully.

## NIAGARA SYSTEM

### **Queenston-Chippawa Development**

A new bridge, replacing the temporary timber structure where Queen street, in the village of Queenston, crosses the railway serving the power house at Queenston, was constructed of steel and concrete, in accordance with the original agreement with the township authorities, which provided that when the timber bridge had reached the end of its useful life a permanent structure should replace it. The approaches and sidewalks have been widened and protected by guard rails and fencing, and the area cleaned up and put in suitable condition.

A new approach span has been built at the south end of the highway bridge crossing the Welland river in the village of Chippawa. The work involved a large amount of earth fill, the placing of rip-rap, the sodding and seeding of banks, and some tree planting. The appearance of the area affected has been greatly improved. This bridge and the work incidental thereto were inspected by the Department of Railways and Canals, and officially accepted.

Inspection of and repairs to the ship channel gates at the main intake were completed, and the floating construction plant was overhauled, painted, repaired and placed in a convenient storage bay.

Over the entire river area involved and also along the power canal, the banks have been strengthened both by rip-rap and by tree planting in places where these methods were applicable.

Many of the bridges have been inspected, repainted and repaired, and the canal slopes in their immediate vicinity have been trimmed and rip-rapped; this work has greatly improved the appearance of the bridges.

At the outlet end of the ice chute for the power house, repairs have been made to the concrete floor, which had been damaged by the erosive action of the water discharged at high velocity.

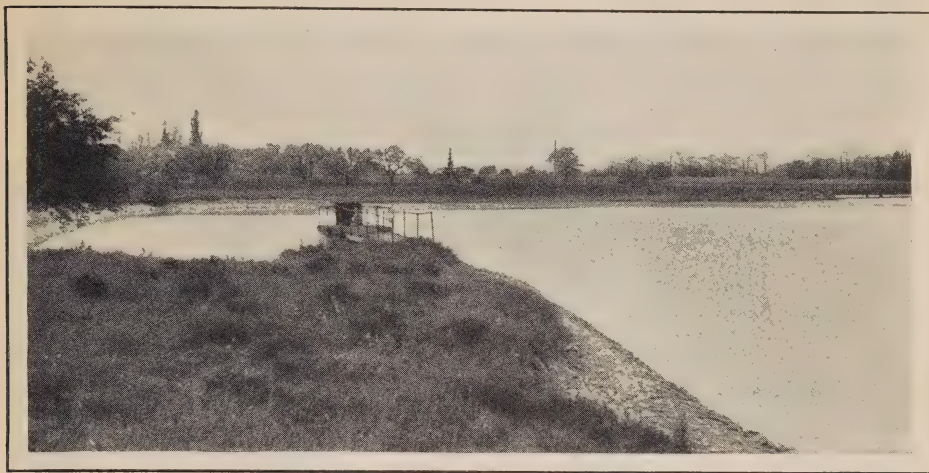
The action of frost and disintegration generally had loosened much rock on the face of the cliff just north of the power house; this rock requires periodic scaling to prevent damage to the structures and tracks beneath, and the necessary work was undertaken and completed during the year.

All old construction camps and shops have been salvaged and the areas graded and placed in good condition. Guniting and broken concrete from these operations have been placed on the canal banks at the bridge heads, to which reference was made in the foregoing.

### **Ontario Power Station**

As at the Queenston station, the scaling of the cliff immediately above the power house became necessary. A gasoline crawler crane, travelling on the edge of the escarpment, provided the means to accomplish the work now nearing completion.





DECEW FALLS RESERVOIR

Automatic gauge setting

#### DeCew Falls Plant

The Commission became involved in law suits in connection with flooding damages on the Beaverdams creek, east of the Welland ship canal. The suit was brought against the Dominion Government by parties whose lands had been flooded, and the Dominion Government caused the Dominion Power and Transmission Company and the Hydro-Electric Power Commission to be added to the suits as third parties. The Beaverdams creek enters the storage reservoir of the DeCew Falls development through a culvert under the Welland ship canal and channels excavated down-stream from the culvert. The Hydraulic department gave assistance to the Legal department in connection with these suits by surveys, collection of flow and water level data, and hydraulic studies. Judgment was in favour of the Commission and the Dominion Power and Transmission company, the flooding being considered due to causes other than their works.

Attention has been given to various problems relating to measurement of water supply, water level and lands in connection with the reservoirs at the DeCew Falls plant.

#### Chats Falls Development

Work on this development has drawn rapidly to a close, the major part having been completed by the end of the fiscal year of 1931. The remaining features consisted largely of removal of cofferdams, completion of concrete work at points which did not interfere with operation, completion of log slide, portage road, Chats lake improvement, and clearing to high water level. Early in this fiscal year, the tailrace cofferdam was removed, together with sections of other cofferdams and construction embankments.

The training wall to the east of the log slide was completed, together with the log slide itself. Gaps left in bulkhead sections, through which trackage passed, were also concreted. The cofferdam and some rock barriers at the Chats

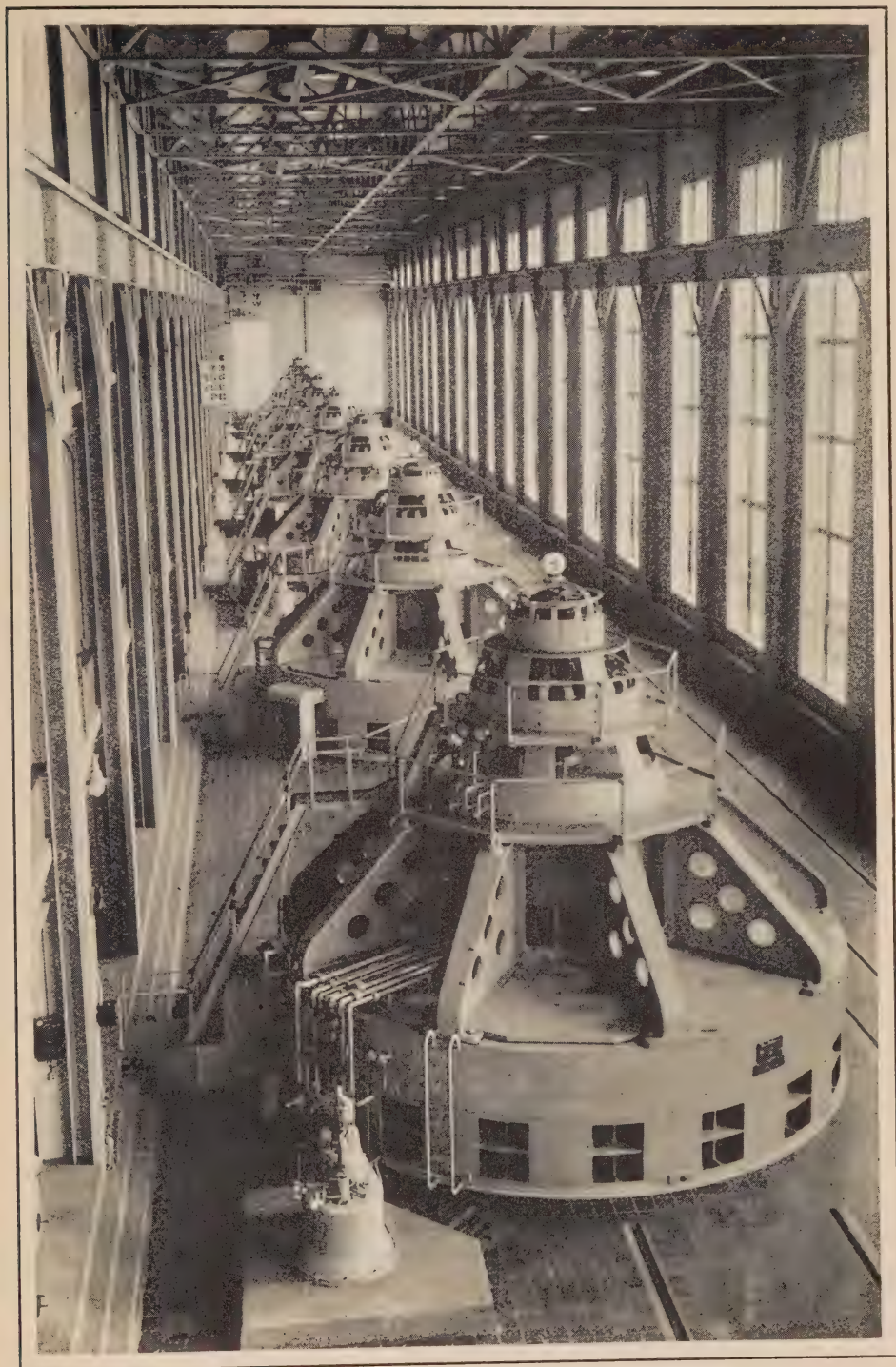


CHATS FALLS POWER DEVELOPMENT—OTTAWA RIVER  
Headworks and gantry crane

lake improvement work were all removed before the end of the calendar year 1931. All clearing to high water level was done early in the year. Cribbs and booms were in place by December 15, 1931, preparatory to raising the headwater level and to protect the station from floating timber and logs. Construction camps, shops, equipment and trackage have all been cleared away, and the contract with Morrow and Beatty was completed by August 31, 1932. Any minor work of construction is now being done by the Operating department.

During the months of July and September, hydraulic tests were carried out on units 3, 4, 7 and 8, for the purpose of determining the capacity and efficiency of the equipment, and to rate the units in terms of water used. The quantity of water used by each unit at full gate under normal head is in excess of 6,000 cubic feet per second. Accurate measurement of water in any plant with a layout similar to the Chats Falls development, involves difficulties that are accentuated in this case by the large quantities to be measured. The Gibson time-pressure method of measurement was applied, although the supply pipes were shorter than any others upon which the staff had worked by this method. Very consistent results were obtained. Computations and analyses of these results are proceeding at the present time.





CHATS FALLS POWER DEVELOPMENT—OTTAWA RIVER  
Generator room from Ontario end



### GEORGIAN BAY SYSTEM

#### **Trethewey Falls**

Measurements and tests were carried out to determine accurately the capacity of the headpond for various elevations of water.

A conference with the township officials was held in connection with taking over the roads built and diverted in consequence of the development at Trethewey Falls.

### EASTERN ONTARIO SYSTEM

Hydraulic tests were carried out at the Heely Falls development on each of the three units, for the purpose of rating the plant. This plant is used as the key plant in rating the Trent river, the flow of the river being determined from measurements of the water passing through the turbines plus that passing over a weir in the main channel of the river. Tests for the same purpose as these were made ten years ago. It is interesting to note that the efficiency and capacity of the units have been well maintained. Meterings were also made at Trent bridge to supplement these tests.

#### **Auburn Plant**

An inspection of the canal at the Auburn development, in May, showed that the concrete lining had settled and cracked at certain points, and that the earth fill embankment had been eroded somewhat in these sections. Repairs were made by renewing the fill, replacing the rip-rap to protect the toe, and repairing the concrete canal lining and retaining wall with gunite.

### THUNDER BAY SYSTEM

#### **Cameron Falls Development**

Alterations were made in the governors on units 1 and 2 at the Cameron Falls development by the addition of dashpot by-pass valves. These units are equipped with governors of the same type as those upon which experiments were made at the Toronto Power plant, some years ago, by the application of the first of these valves. The device was later applied to some of the governors at the Queenston plant, with satisfactory results. The load on the Nipigon system is a type that requires close regulation, a condition that is effected to a greater extent than formerly by the addition of these valves.



CHATS FALLS POWER DEVELOPMENT—OTTAWA RIVER

Improvements in progress at outlet of Chats Lake



CHATS FALLS POWER DEVELOPMENT—OTTAWA RIVER

Deschenes gauge well and shelter near Alexandria Island

### **Alexander Development**

Improvements in regulation in the system were also secured by the addition of a permanent magnet generator on one unit at the Alexander development. The governor flyball heads at this development are driven electrically, and while the electric drive is superior in many respects to the mechanical drives in universal use some years ago, it is open to objection in many cases on account of cost or insufficient protection. Most of these objectionable features are overcome by what is known as the "permanent magnet drive." With this device the flyball motor is driven by power drawn from an auxiliary generator on the main generator shaft, in which permanent magnets provide the auxiliary generator field. Instability, resulting from variations in the field current for the auxiliary generator, is eliminated.

The painting of headgate hoists, turbines and pumps was completed during the year. Construction camp and shop buildings were taken down, and the areas graded and restored in a suitable manner.

Field estimates and mapping of the proposed railway extension to Pine Portage have been completed.

Inspection of the main earth dam revealed no appreciable evidence of leakage.

The rock fill supporting the lower end of the log chute was inspected, and provision made to reduce the erosive effect of high-water discharge over the spillway. Record drawings for this development have been prepared.

Water gauges at various points on the Nipigon river have been inspected and rechecked for elevation.

## **NORTHERN ONTARIO SYSTEM**

### **Nipissing Development**

Drainage for the grade carrying the wood-stave pipe was improved during the year, to prevent undue settlement of pipe.

New turbine runners have been designed for the units in this plant. They are approaching completion and will be installed in the near future. The new runners are of bronze, and will replace cast-iron runners installed about ten years ago. No change in turbine casings, supply pipes, or other equipment, is involved.

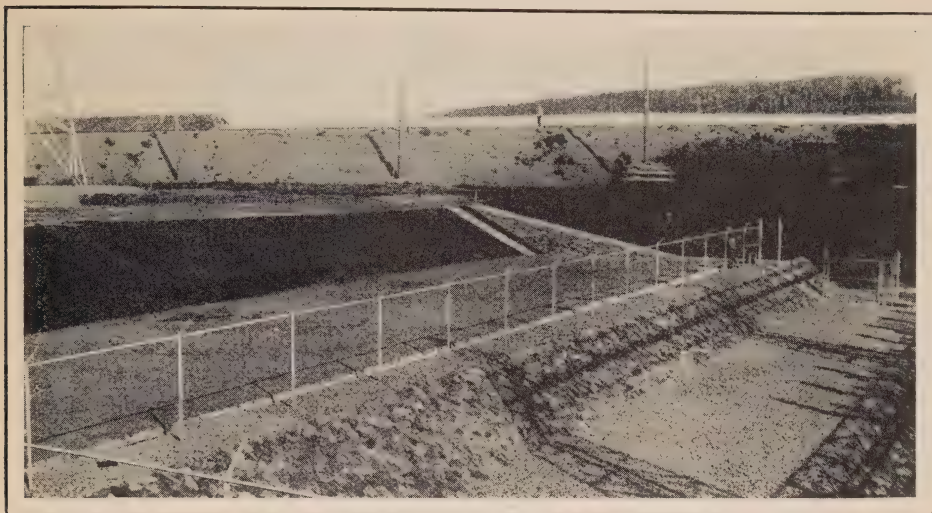
### **Elliott Chute Development**

A conference was held with the township authorities regarding taking over the roads created and diverted by the development at Elliott chute.

### **Abitibi Canyon Development**

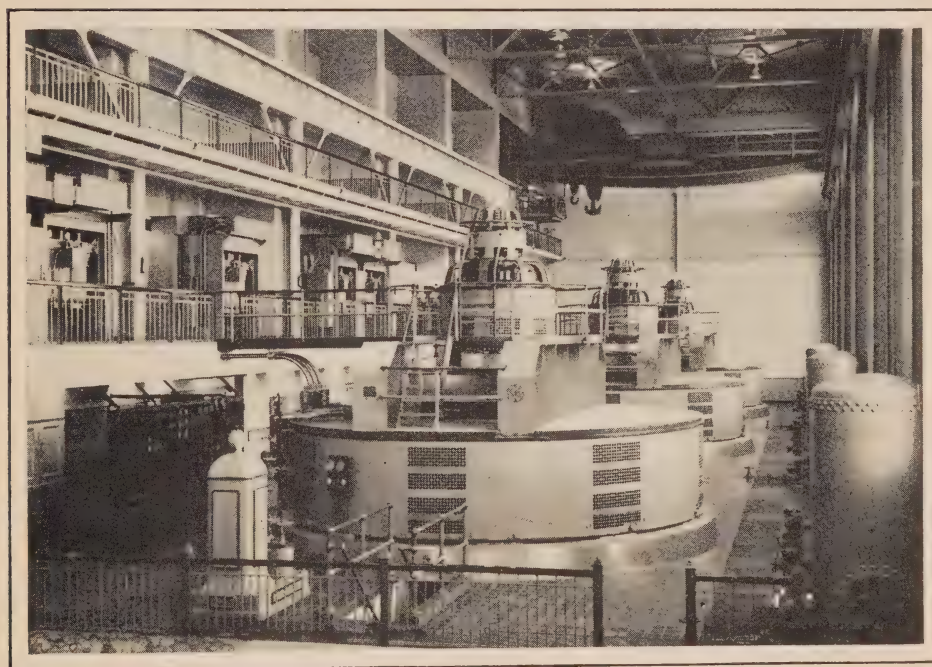
This development is now in the receiver's hands, and certain necessary completion items are being carried out under the direction of the Commission's engineering staff acting for the receiver.





ALEXANDER POWER DEVELOPMENT—NIPIGON RIVER

Trimmed banks and walks, and dam slops to right of power house



ALEXANDER POWER DEVELOPMENT—NIPIGON RIVER

Generator room showing three units aggregating 54,000 horsepower



ELLIOTT CHUTE DEVELOPMENT—SOUTH RIVER

Rip-rap protection to roadway across reservoir

## HYDRAULIC INVESTIGATIONS

Detailed estimates and studies have been completed covering the most economical method of adding to the power supply for the Georgian Bay system. Estimates were made of costs of developing power at Ragged rapids and at Bala on the Musquash river, and by increasing pipe-line capacities and the installation of an additional unit at Eugenia. Investigations were also made regarding the economy of obtaining an additional supply of power from the Niagara system

Estimates have been prepared covering repairs to the dams on the Saugeen river at the Walkerton, Hanover and Southampton properties recently acquired by the Commission.

Detailed estimates and reports were made on developments at dams Nos. 4 and 5 on the Otonabee river, covering single- and double-stage developments.

Estimates of cost of developing power on the Mississippi river at Appleton and Blakeney and at Arnprior on the Madawaska river were completed and reports prepared.

Studies and estimates have continued for various schemes of development on the St. Lawrence river.

The slackening of intensive work on engineering and design of developments under construction has permitted attention to be paid to some problems of engineering research of special value in connection with hydraulic structures. Particular attention has been paid to the collection and analysis of data on ice pressure on dams, and on the design of dams.



## SECTION V

### ELECTRICAL ENGINEERING AND CONSTRUCTION (STATION SECTION)

#### NIAGARA SYSTEM

##### Generating and Switching Stations

**Generating Stations on the Niagara River**—Additional relays are being installed on the generators at the Queenston generating station for the purpose of improving the stability of the system. Improvements were made in the heating system.

**Chats Falls Development**—Construction work at the generating station of the Chats Falls development was carried to completion during the year and eight generators are now in operation. The first four were in service in 1931, and the last four were placed in service on October 1, 1932.

Living accommodation for the operators was provided by the erection of six suitable houses about  $1\frac{1}{2}$  miles from the development. The houses are equipped with coal-burning furnaces, water supply from an adjacent well, sewage disposal, and electric wiring and fixtures. The surrounding grounds were improved and the necessary roads constructed.

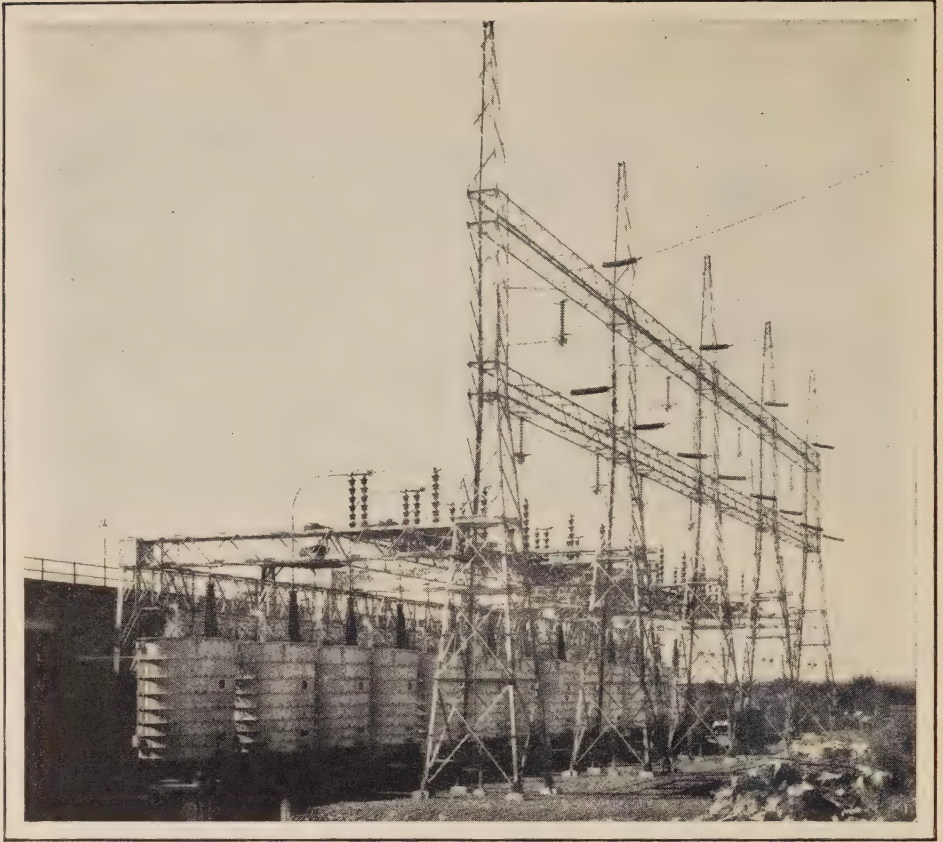
**Beauharnois and MacLaren Developments**—As in the past year engineering conferences have been held in co-operation with the Beauharnois Light, Heat and Power Company and the MacLaren Corporation in reference to the design of their respective generating stations, in accordance with provisions in the power purchase contracts. Power was received from the Beauharnois development on October 20, 1932.

**Victoria Island Inter-switching Station**—The three 220,000-volt current-transformers referred to last year were installed and the station is now complete.

##### Transformer and Distributing Stations

**Chats Falls Transformer Station**—Construction of the station which was briefly described in last year's Annual Report was completed during the year. The last two banks of transformers were placed in service on October 1,





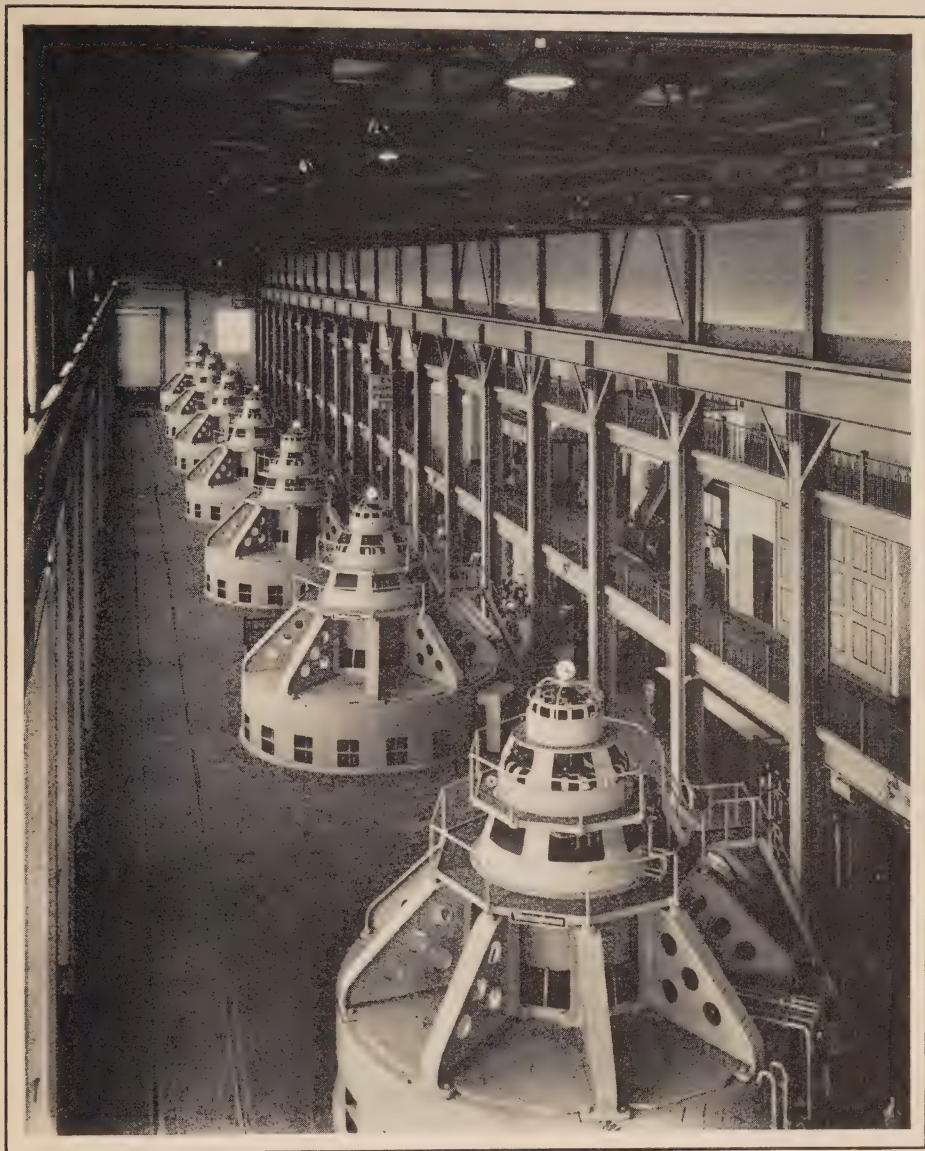
CHATS FALLS TRANSFORMER STATION

View of the 15,700 kv-a., 220,000-volt transformers  
A portion of the dam is seen in the background

1932. During the year a third 220,000-volt circuit was connected into the station for the purpose of receiving power from the Beauharnois development.

The power from the Beauharnois development passes through the busses in the station and is transmitted with the power from Chats Falls development to Toronto over the Commission's 220,000-volt circuits. One circuit is connected direct through to Toronto, while another circuit ties into one of the Pagan to Toronto lines at Victoria Island Inter-switching station.

The station has a transformer capacity of 188,400-kv-a. in four banks, there being thirteen 15,700-kv-a., single-phase, water-cooled transformers including a spare unit. Nine 220,000-volt oil circuit-breakers provide the necessary switching for the transformer banks and transmission circuits. Remote control of all circuit-breakers and disconnecting-switches and remote meter indications are provided in the control room of the Chats Falls development. An extensive system of overhead ground wires is installed over all the equipment together with spillway-gaps at vital points for the purpose of protecting the



CHATS FALLS POWER DEVELOPMENT—OTTAWA RIVER

Interior of generating station looking from the Quebec end, showing seven of the eight generators installed

station equipment against high voltages due to lightning. The station is equipped with a very complete relay system which assures rapid clearance of equipment in case of faults.

In order to check the functioning of this relay system, short-circuit tests were successfully applied to the 220,000-volt circuits under normal operating conditions.



**Niagara District**—At Niagara transformer station changes were made in the 110,000-volt switching equipment. Two new oil circuit-breakers were purchased and installed outdoors on the high-voltage side of the transformer banks and improvements were made on two of the indoor breakers. Two of the older type 110,000-volt lightning-arresters at this station were replaced by two modern units. The breakers which were removed were transferred to London transformer station.

At Port Robinson, a new 450-kv-a. distributing station was erected adjacent to the Standard Steel Construction Company's plant. Three 150-kv-a. single-phase transformers were transferred from Exeter distributing station. The old station in the Company's plant was dismantled.

At the Ontario Paper Company's plant at Thorold, the Commission under contract with the Company is installing a 67,500-kv-a. transformer station to enable the Company to utilize electric power in the manufacture of its process steam.

A bank of three 22,500-kv-a. transformers with spare unit and three 30,000-kw. electric steam generators comprising the main equipment have been purchased and will be ready for service early in 1933. The transformers will receive power from the 110,000-volt lines and step it down to 6,600-volts which will be the voltage on the electrodes. The generators are single-tank, three-phase units for operation at 200 lbs. steam pressure.

**Hamilton and Dundas District**—At Dundas transformer station, high-speed relaying equipment was installed on four 110,000-volt lines. This is similar to the equipment installed last year on the other 110,000-volt lines at this station.

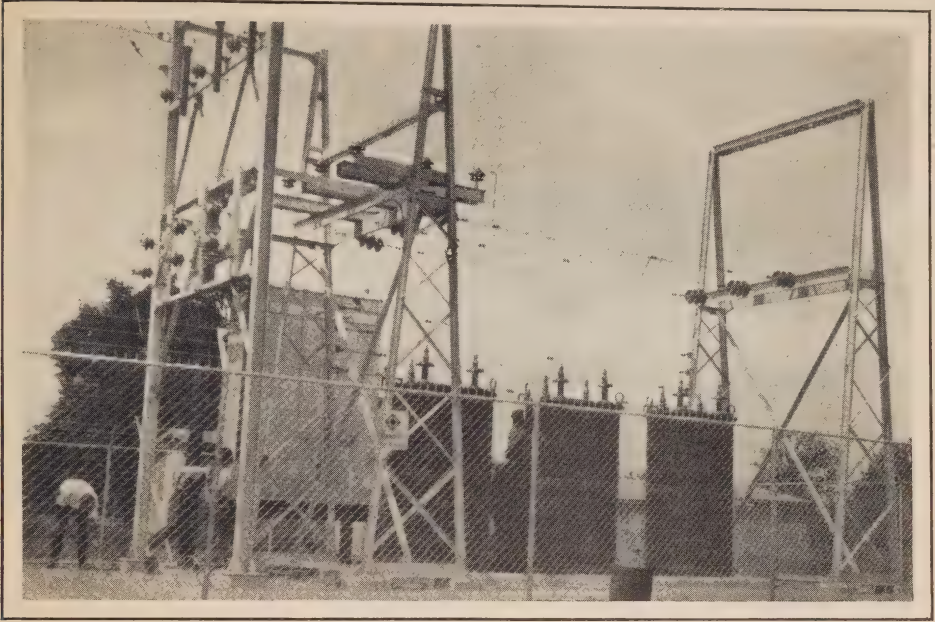
Three-phase, 4,000-volt metering equipment was installed at Jarvis. Lightning-arresters were installed on the 44,000-volt incoming line to Burlington distributing station.

**Toronto and York Districts**—At Toronto-Leaside transformer station 220,000-volt lightning-arresters were installed on the high-voltage side of No. 5 and No. 6 banks of transformers. Equipment was also installed at this station for an additional 13,200-volt feeder to the Toronto Hydro-Electric System's Glengrove substation.

Two new 110,000-volt oil circuit-breakers were purchased and installed on the high-voltage lines at Toronto-Strachan transformer station, replacing old lower-capacity breakers. One of the other line breakers was reinforced to increase the rupturing capacity.

At New Toronto distributing station the 3,000-kv-a. transformer purchased last year was placed in service in May and the replaced 1,500-kv-a. unit stored at the station. Two 13,200-volt oil circuit-breakers were replaced by larger capacity breakers and equipment was installed for a third 2,300-volt feeder. A chain-link fence was erected around the outdoor section of the station.





WEST HILL DISTRIBUTING STATION

At West Hill a new semi-outdoor distributing station was erected and placed in service, using a bank of three 250-kv-a., single-phase transformers released from Islington distributing station. At the latter station the original bank was replaced by three new 500-kv-a., single-phase units. The capacity of Aurora distributing station was increased by the installation of a bank of three 500-kv-a., single-phase transformers replacing the three 250-kv-a. units which were transferred into system reserve. At Richmond Hill distributing station additional oil circuit-breaker and feeder equipment was installed; and near the town of Agincourt metering equipment was installed to measure the power supplied to the Unionville area.

**London District**—The work at London transformer station reported last year is completed and the equipment is in service. Two of the 110,000-volt oil circuit-breakers in the lines were replaced by higher capacity breakers and 110,000-volt potential-transformers and other necessary equipment was purchased and installed to give high-speed relay protection on the high-voltage lines.

A semi-outdoor 750-kv-a. station known as London Trafalgar rural station was erected and placed in service during the year, three new 250-kv-a., single-phase transformers being transferred from system reserve for the installation. The capacity of Exeter distributing station was increased by the installation of a bank of three 250-kv-a., single-phase transformers replacing three 150-kv-a. units which were transferred to Port Robinson distributing station.

**Guelph District**—Equipment for an additional 13,200-volt feeder was purchased and installed at Guelph transformer station to feed power to the Canadian Gypsum Company. Engineering assistance was given Guelph in the

purchase and installation of improved metering equipment. New equipment was installed for metering the Ontario Agricultural College load.

**Preston District**—A metering station was installed immediately north of the Waterloo rural station to measure that portion of its load fed to the Preston rural district.

**Kitchener District**—At Kitchener transformer station, No. 2 bank of three 2,500-kv-a., 110,000-volt transformers was replaced by a bank of three 5,000-kv-a. units and with the necessary changes in the switching equipment was placed in service in December, 1931. The replaced transformers were transferred to system reserve and stored at the station. High-speed relaying equipment was also installed on the high-voltage lines at this station.

A metering station was installed immediately west of Waterloo rural station to measure that portion of the station load fed to Baden rural district.

**Stratford District**—A new station known as Goderich rural station was erected south-east of Goderich to feed the rural district at 8,000-volts. Three 75-kv-a., single-phase transformers obtained from system reserve were rebuilt for outdoor service and used for this installation.

**St. Marys District**—At St. Marys transformer station three 13,200-volt oil circuit-breakers were replaced by higher capacity units and a transfer bus was installed.

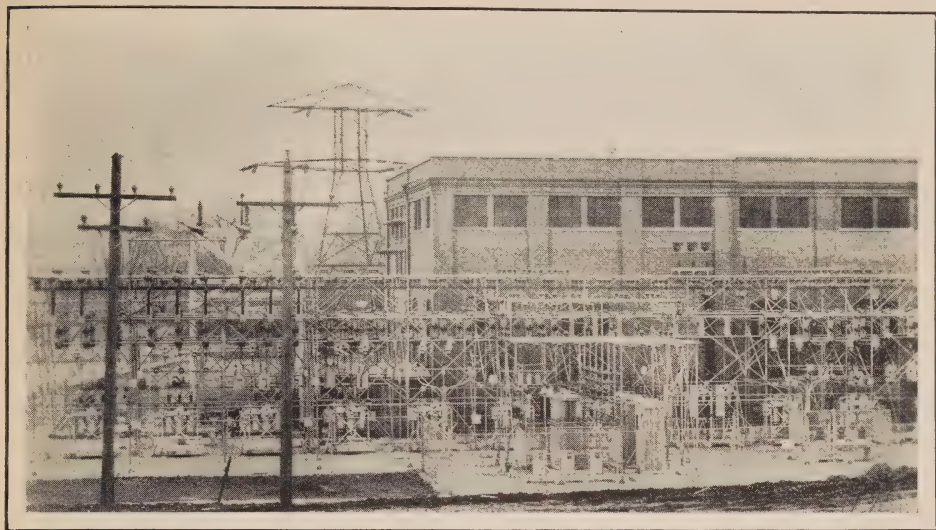
**Woodstock District**—At Woodstock transformer station a bank of three 1,250-kv-a., single-phase transformers and a spare 2,500-kv-a. unit were installed. The former were placed in the space previously occupied by a 110,000-volt line breaker. Two of the 1,250-kv-a. transformers were formerly held at the station as spare equipment while the other two units were obtained from system reserve. Two 110,000-volt line, oil circuit-breakers situated indoors and an electrolytic lightning-arrester were removed and the breakers replaced by two heavier capacity units which were installed outdoors. The indoor, 13,200-volt switching equipment and switchboard were replaced by more suitable equipment of larger capacity which was made electrically operated. The location of the control room was changed, the relay-protection was improved, new water circulating-pumps, an oil-filter and a storage-battery were installed and necessary changes were made in the building to accommodate them. The 4,000-volt, oil circuit-breakers in the feeders from the Woodstock rural station were replaced by electrically operated units and similar equipment for an additional feeder was installed.

The capacity of Norwich distributing station was increased by the installation of a bank of three single-phase, 250-kv-a. transformers replacing three 150-kv-a. indoor units. The new transformers were purchased from Strathroy and rebuilt for outdoor service, while the replaced units were transferred to system reserve.

At Embro distributing station equipment was installed for a 4,000-volt feeder to supply power to Ingersoll rural district.

**St. Thomas District**—At St. Thomas transformer station six 110,000-volt potential-transformers and the necessary relays were purchased and installed for use in equipping the high-voltage lines with high-speed relay-protection.





WOODSTOCK TRANSFORMER STATION

Switching structures—13,200 volts

This equipment should be in service early next year. The 110,000-volt oil circuit-breaker on the line to St. Clair transformer station was replaced by a higher capacity breaker transferred from the latter station.

**Brant District**—At Brant transformer station an emergency bus was installed so that the spare 5,000-kv-a. transformer can be quickly switched into service in case of trouble to any of the present transformers in the bank.

In the Cockshutt and Lorne substations metering equipment was installed to measure the power supplied from the former Dominion Power and Transmission lines to the municipality of Brantford.

**Kent District**—In Kent transformer station a 1,000 gallon capacity oil storage-tank with connections to the existing piping-system was installed.

The Chatham municipal station was re-equipped with new 26,400-volt and 4,000-volt oil circuit-breakers also new current and potential-transformers for use in metering and relaying from the high-voltage side. A storage-battery was purchased and installed to provide power for the electrical operation of the breakers, and the switchboard was moved to a new location in the building. An emergency 4,000-volt bus with the necessary conduit and control cable was installed, and the lighting system improved.

**Essex District**—At Essex transformer station a 4,200 gallon capacity oil storage-tank was installed in the basement and connected up to the existing piping-system.

**St. Clair District**—At St. Clair transformer station the 110,000-volt oil circuit-breaker was removed and transferred to St. Thomas. A 26,400-volt oil circuit-breaker was installed on the low-voltage side of the transformer bank.



At Forest a new station was erected directly across the road from the old station and the three 150-kv-a. transformers which were formerly indoors were rebuilt and transferred to the new location outdoors. A bank of three 75-kv-a. transformers was purchased and installed on the Thedford and Arkona feeder for stepping the voltage up to 8,000 volts. The metering equipment for the latter two places was changed from 4,000 to 8,000 volt service.

### GEORGIAN BAY SYSTEM

**Severn District**—Painswick distributing station was changed from 4,000 to 8,000-volt service. Three 25-kv-a. transformers were replaced at Port McNicoll distributing station by three 50-kv-a. units.

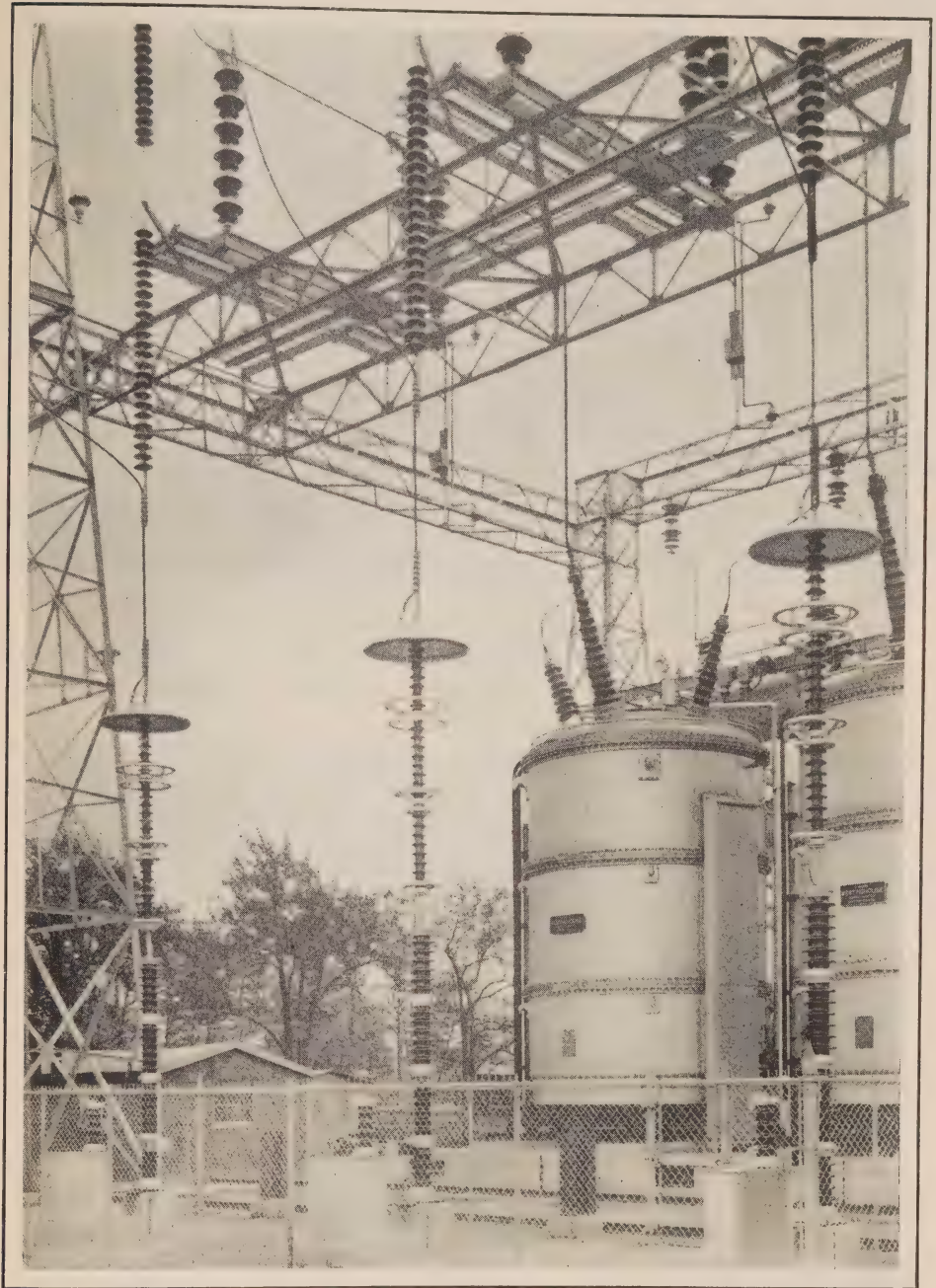
**Eugenia District**—In Walkerton generating station the switchboard equipment was replaced by more suitable equipment to enable this station to be synchronized to the 22,000-volt system without interrupting service. Two new 2,300-volt feeder equipments were installed to supply the town of Walkerton and Walkerton rural station.

Walkerton rural station was erected outdoors on the generator station site to supply power to Bruce rural district at 4,000 volts. Three new 75-kv-a. transformers were purchased and the installation completed. Near Mildmay a metering station was installed to meter the load in that district. At Hepworth distributing station the two 50-kv-a. transformers were replaced by a new 100-kv-a. single-phase transformer. The replaced transformers were transferred to Callander. At Elmwood distributing station the three-phase, 50-kv-a. transformer was replaced by a three-phase, 75-kv-a. unit obtained from system reserve. The replaced unit was transferred to system reserve. At Orangeville distributing station three 250-kv-a. transformers were purchased and installed, replacing three 150-kv-a. units which were transferred to Capreol municipal station. All the 22,000-volt switching equipment was moved outdoors and high-voltage lightning-arresters installed. At Berkeley, a single-phase, 50-kv-a., 22,000-volt station was erected, a new transformer being purchased for the installation. At Dundalk distributing station lightning-arresters were installed on the 22,000-volt line. A metering station was installed to meter the rural load supplied from Port Elgin distributing station.

The Hanover distributing station which formerly received power from the 22,000-volt system was reconstructed to receive 4,000-volt power from the 4,600-volt bus in the frequency-changer station through a 4,600/4,000-volt bank of transformers. A bank of three new 500-kv-a., 4,600/2,400-volt transformers and spare unit with the necessary 4,000-volt switching equipment was purchased and installed for this purpose at the frequency-changer station. All the 22,000-volt equipment was removed, and the original 750-kv-a. transformer was transferred to system reserve.

**Wasdells District**—At Wasdells rural station the bank of three 37.5-kv-a., single-phase transformers was replaced by a bank of three new 75-kv-a. transformers. The Georgina rural metering station was dismantled and Beaverton rural metering station installed to meter the power supplied to the Beaverton rural district.

**Muskoka District**—An adequate office room with telephone facilities was installed in the South Falls generating station. Additional ground rods were installed and the 38,000-volt neutral grounded.



TORONTO-LEASIDE TRANSFORMER STATION

220,000-volt lightning arresters on No. 6 transformer bank.



A 300-kv-a. outdoor station known as Falkenburg distributing station was installed north of Bracebridge. A bank of three new 100-kv-a. transformers was purchased together with the necessary switching and metering equipment.

**Bala District**—A bank of three 75-kv-a., single-phase transformers was transferred from Walkerton transformer station and installed at Port Carling distributing station replacing six 15-kv-a. transformers which were transferred to system reserve. The capacity of the switching and metering equipment was correspondingly increased.

### EASTERN ONTARIO SYSTEM

**110,000-volt Transformer Stations**—At Frontenac transformer station a spare 5,000-kv-a. transformer similar to the present units was purchased and installed.

As the demand for three-phase power at Forfar distributing station is discontinued one of the 500-kv-a. transformers was removed from service and transferred into system reserve.

**Central Ontario District**—At Dam No. 8 generating station the 44,000-volt neutral was grounded and the relay system augmented. At Fenelon Falls generating station a grounding bank of transformers was installed to provide grounded neutral service to Fenelon Falls rural power district.

At Auburn switching station two 44,000-volt air-break switches were installed to tie in the new 44,000-volt circuit from Peterborough municipal station to the Auburn switching station bus or if necessary direct to the 44,000-volt line to Heely Falls generating station.

At Oshawa distributing station additional metering and switching equipment was installed. A 4,000-volt feeder was installed in Whitby municipal station to supply power to Oshawa rural power district. A metering station was installed south of Lakefield distributing station to measure the load fed to the Lakefield rural power district. Belleville distributing station No. 2 was rearranged for 4,160-volt service instead of 2,400-volt as formerly.

At Colborne rural station two 50-kv-a., 2,300/4,600-volt transformers were purchased and installed to supply 8,000-volt power to Grafton and Castleton.

At Omemee distributing station the bank of three 40-kv-a. transformers was replaced by three 50-kv-a. transformers obtained respectively from Balderson distributing station, Williamsburg distributing station and system reserve. The 40-kv-a. transformers were rebuilt into 75-kv-a. units and will be transferred to Maxville where a new distributing station is being erected.

**St. Lawrence District**—At Cornwall transformer station equipment was installed to permit synchronizing operations on the 44,000-volt circuits.

At Williamsburg distributing station the 50-kv-a. transformer was replaced by a 100-kv-a. unit obtained from system reserve. The replaced transformer was transferred to Omemee. An additional 2,400-volt feeder and 44,000-volt lightning-arrester were also installed.

**Rideau District**—At Perth distributing station a 750-kv-a., three-phase transformer transferred from Rideau transformer station was installed and placed in service. At Balderson distributing station the 50-kv-a. transformer





QUEENSTON-CHIPPAWA POWER DEVELOPMENT—NIAGARA RIVER

View of the beautiful grounds adjacent to the forebay and screen house on the top of the Niagara escarpment



CHATS FALLS POWER DEVELOPMENT—OTTAWA RIVER

View of control room showing control and meter board

was replaced by a 150-kv-a. unit obtained from system reserve. The replaced unit was transferred to Omemee.

**Madawaska District**—Metering equipment was installed in the Braeside feeder at Arnprior distributing station.

**Ottawa District**—A new 600-kv-a., 11,000/8,000-volt station was installed on the site of the Ottawa transformer station replacing the Carlington distributing station (formerly known as Nepean rural station). The 200-kv-a. transformers in the latter station were reconnected from 2,300 to 11,000 volts and an 11,000-volt oil circuit-breaker obtained from system reserve. The new station is known as Ottawa rural station and supplies power to the rural district around Ottawa.

### THUNDER BAY SYSTEM

**Generating Stations on the Nipigon River**—The remote control equipment for the operation of Alexander power development from Cameron Falls generating station was placed in service during the year. An incinerator was installed at Cameron Falls to provide for the disposal of all garbage from the operators' settlement.

**Transformer and Distributing Stations**—For metering the load to the Port Arthur rural power district, metering equipment was purchased and installed on a pole structure.

### NORTHERN ONTARIO SYSTEM

**Nipissing District**—At Nipissing generating station a permanent brick end-wall with concrete plinth was erected, replacing the original wooden wall. Improvements were made in the building to insure against flooding of the station and to provide safety features for the operators. The lighting system was improved, the old lightning-arresters were replaced by more modern type and changes were made in the switching and metering equipment.

At Callander a 150-kv-a. outdoor station was erected to supply the Canadian Timber Company with power at 575-volts. Two 50-kv-a. transformers released from Hepworth distributing station and one obtained from system reserve were used for the installation.

**Sudbury District**—A new 450-kv-a. outdoor station was erected for the municipality of Capreol, using three 150-kv-a. transformers released from Orangeville distributing station.

**Abitibi District**—Co-operation with the Ontario Power Service Corporation in reference to engineering details in the design of its generating station at Abitibi Canyon was carried out in accordance with the provisions of the power contract.

**Patricia District**—The ventilation of the generator and station at Ear Falls development was improved.

### ADMINISTRATION BUILDING

Drawings and specifications were prepared in co-operation with Architects and Consultants for an eighteen-storey Administration building adjacent to the present building at 190 University Avenue. Plans incorporating a structural steel frame, also an alternative design for a reinforced concrete frame were issued and request for tenders advertised on October 1.

## SECTION VI

### TRANSMISSION, DISTRIBUTION AND RURAL SYSTEMS

#### TRANSMISSION SYSTEMS

The work carried on by the Commission's transmission section has been reduced to a minimum during the past year. The principal work completed was the construction of 100.16 miles of 220,000-volt, steel-tower line between the Quebec boundary, near the St. Lawrence river, and Chats Falls transformer station.

The usual work in connection with the lower voltage, wood-pole lines has continued. This consists chiefly of rebuilding and restringing where lines have reached a point at which this is necessary.

Progress is evident in the improvement of the Commission's telephone circuits, especially the longer lines, care being taken to closely co-ordinate the telephone lines with the power circuits where they parallel.

Work has continued in keeping telephone and railway crossings throughout the systems strengthened in conformity with specifications of the Board of Railway Commissioners.

The following synopsis relates to the work undertaken during the year. At the back of this report a map showing all power lines is included and relative data are tabulated in Appendix II.

#### NIAGARA SYSTEM

##### **220,000-volt Lines**

Between a delivery point on the Ontario-Quebec boundary and Cumberland switching station, a distance of 54.75 miles, and between Cumberland switching station and Chats Falls transformer station, a distance of 45.41 miles, construction was completed of a single-circuit, 220,000-volt, steel-tower line. This line is similar to the other 220,000-volt lines built by the Commission and provides transmission facilities to take the first part of the Beauharnois contract. Cumberland switching station is designed and located to form a junction point for a line which is being constructed from the MacLaren power sites on the Lievre river.

##### **110,000-volt Lines**

Absorber rods were added to 110,000-volt circuits between Allanburg and St. Thomas, 103.6 miles. These rods were designed to reduce as far as possible,



the damage which is being done to the conductors at suspension points, due to vibration.

Service to Oakville was improved by utilizing one of the idle 90,000-volt circuits at 44,000 volts between Gages switching station and a point north of Oakville. Short stretches of new 44,000-volt line were built from this circuit to connect the stations at Burlington, Port Nelson, Bronte and Oakville.

#### **26,400-volt Lines**

At Harriston distributing station the old type of line switches were replaced by modern air-break switches. Between Stratford transformer station and Tavistock, 9.72 miles, the line was reconditioned; this work included the replacement of the No. 6 iron conductor with No. 6 steel-reinforced aluminum conductor and the removal of the ground cable.

The 26,400-volt services out of Stratford transformer station toward Sebringville, consisting of 3 circuits of 3/0 steel-reinforced aluminum conductor and 2 telephone circuits, were revised so that the new length is 1.18 miles. The new lines were built on private right-of-way. The old line, 1.71 miles, which was on roadways, was removed.

At Ridgietown junction and Prince Albert junction old type air-break switches were replaced by switches of a more modern design. Between Waterford junction and Port Dover junction, 6.79 miles of line were rebuilt, and between Brantford Sand and Gravel junction and Brantford municipal station, 3.5 miles of defective ground cable were replaced.

Between Watford and Alvinston distributing stations, Watford junction and Watford distributing station, Wyoming junction and Watford junction, Forest junction and Wyoming junction, Forest junction and Petrolia distributing station, Ontario Supply Company junction and Sarnia junction, guys were added in order to strengthen the lines.

Between Watford junction and Forest distributing station, defective insulators and crossarms were replaced and the No. 6 iron conductor was replaced by No. 2 steel-reinforced aluminum.

#### **Other Lines**

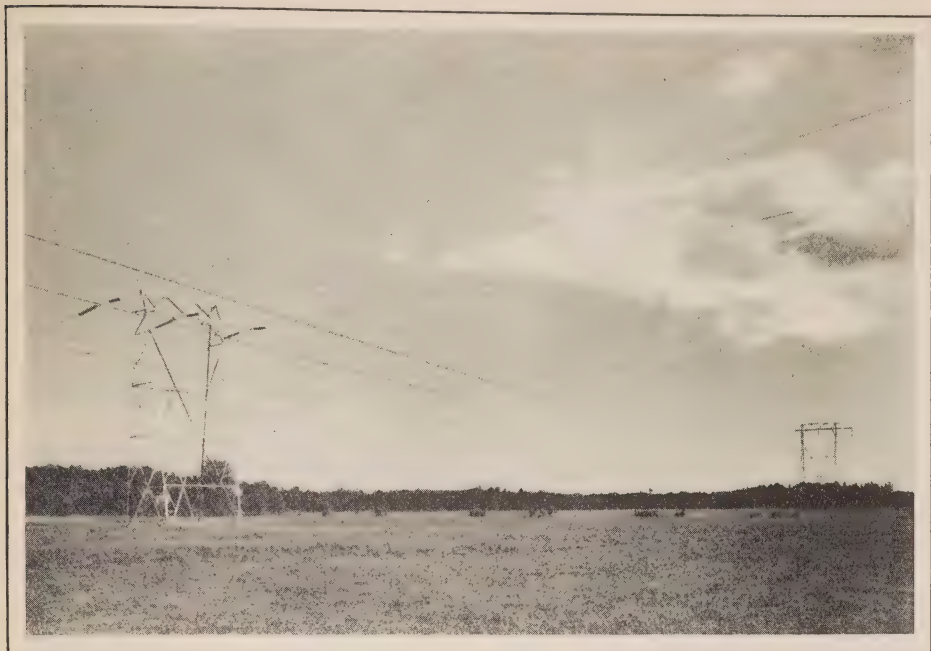
Between Danforth junction and the new West Hill distributing station, 7.25 miles of single-circuit, 13,200-volt line were constructed.

Old type switches were replaced by new at Dundas transformer station in conjunction with rearrangement of lines in the station yard.

Between Dundas transformer station and Dundas municipal station, 1.5 miles of double-circuit, 13,200-volt line were strengthened by the addition of guys and replacement of defective insulators.

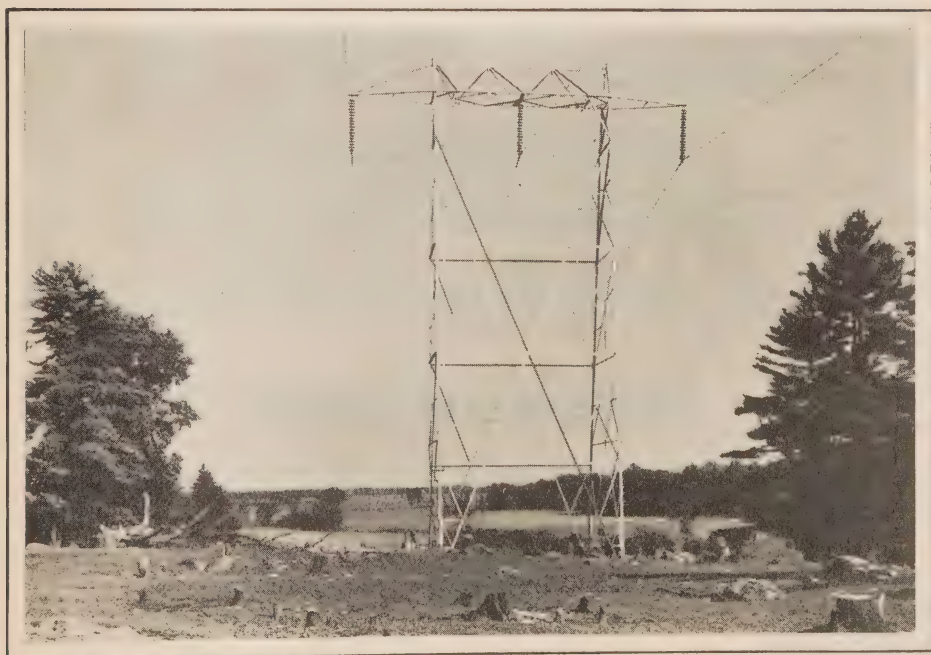
Between an existing 13,200-volt steel-tower line and Aberdeen station at Hamilton 0.5 mile of double-circuit, wood-pole line was built, using a power conductor of 4/0 copper. Connections were made to the new 13,200-volt Trafalgar rural station at London.

Between Fergus junction and Elora, a portion of the 13,200-volt line was rebuilt and an entrance structure and connections were completed to accommodate the new station at Ontario Agricultural College at Guelph.



HYDRO 220,000-VOLT TRANSMISSION LINES

Beauharnois line crossing over Gatineau line looking south-west



HYDRO 220,000-VOLT TRANSMISSION LINES

Beauharnois line looking east from tower 251

Between Woodstock transformer station and Norwich distributing station portions of the double-circuit 13,200-volt line were relocated on account of highway revisions.

Between St. Thomas transformer station and Port Stanley distributing station 12.27 miles of ground cable were removed. This had become defective and created a hazard to the operation of the line.

The extension of the Woodbridge single-circuit line to the location of the new distributing station was completed.

### GEORGIAN BAY SYSTEM

#### **Eugenia District**

Between Priceville distributing station and Hanover junction, 6 poles were moved in accordance with road straightening operations.

Old type air-break switches were replaced by a modern type at Chatsworth and Durham distributing stations.

Between Southampton generating station and Tolmie junction 12.25 miles of 11,000-volt line were removed. This line formed part of a system purchased by the Commission and a better means of transmission was available.

Between Hanover switching station and Hanover distributing station 0.56 mile of 22,000-volt line was converted to 4,000-volt in order to serve this station more economically.

#### **Severn District**

Between Coldwater junction and Elmvale junction, 25 poles were moved from the north to the south side of the road to eliminate two objectionable telephone line crossings.

#### **Muskoka District**

A new line entrance structure was built and connection made to the new Falkenburg distributing station.

### EASTERN ONTARIO SYSTEM

At the request of the township of Nepean two steel towers in the 110,000-volt line between Boundary junction and Ottawa junction were moved to private right-of-way.

In accordance with the railway act the north side of leased railway property was fenced between the west side of Dawes road and the east side of Humbolt avenue in the vicinity northeast of Toronto.

### NORTHERN ONTARIO SYSTEM

#### **Sudbury District**

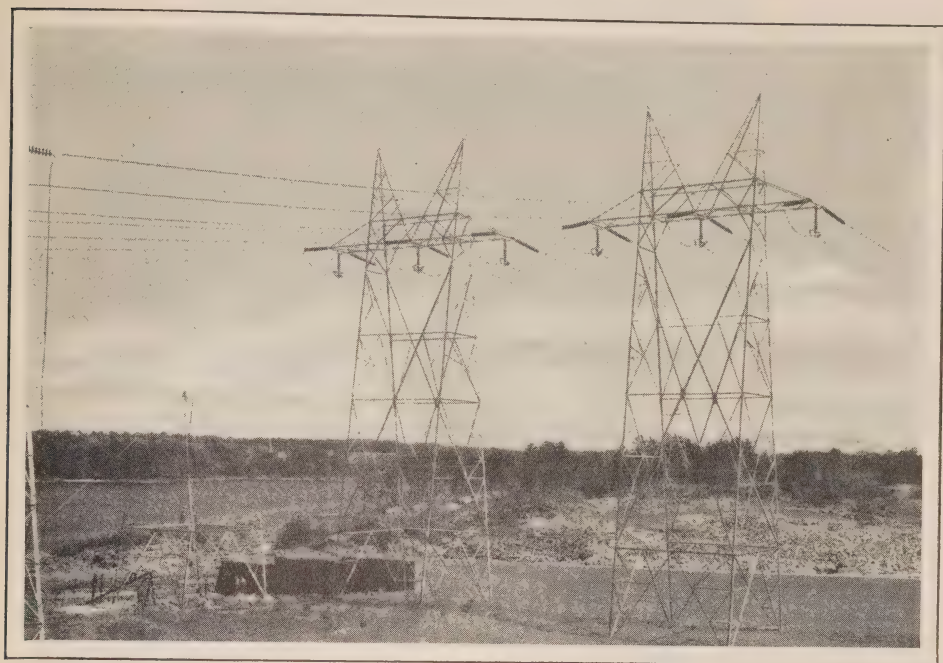
Between a point on the line to Capreol and a new municipal station at Capreol, 0.35 mile of 22,000-volt transmission line was built by the Commission for that municipality.

In the vicinity of Waterfall 1.4 miles of 22,000-volt line were moved away from the Wanapeteci river bank in order to eliminate the hazard created by spring flooding of the river.

#### **Nipissing District**

Between Nipissing generating station and Bingham Chute junction 1.02 miles of 22,000-volt line were removed to a more suitable route on roadways.





HYDRO 220,000-VOLT TRANSMISSION LINES  
Beauharnois line terminal towers at Chats Falls  
(See also frontispiece)

## TELEPHONE LINES—ALL SYSTEMS

A portion of the Gatineau circuit near the Ottawa river was retransposed so as to improve communication conditions over this line.

Between Allanburg junction and Dundas transformer station in the township of Glanford the telephone line was relocated and the old conductor was replaced by No. 9 copper.

Rearrangement of short stretches of the communication lines between Dundas and Brant, Brantford and Woodstock, London and St. Thomas transformer stations, were completed to accommodate rural power circuits.

Between Brant Sand and Gravel junction and the L.E. & N. railway junction at Brantford, 4.65 miles of No. 10 copper-clad steel were replaced by No. 9 copper conductor.

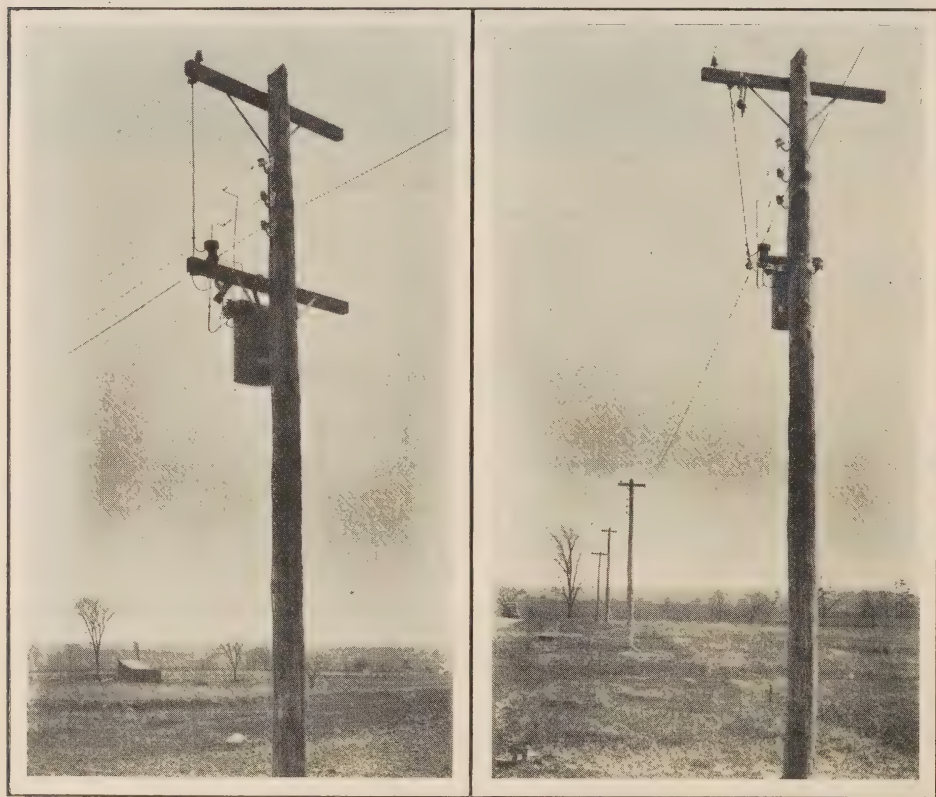
Part of the telephone line between Cooksville and York transformer station was moved from roadways to the former T.N.P. right-of-way. This relocation was made, due to the construction of the third highway west from Toronto. The new portion, 3.10 miles, was strung with No. 6 steel-reinforced, aluminum conductor.

## DISTRIBUTION LINES AND SYSTEMS

In Appendix III is shown in tabular form the work carried on during the year ended October 31, 1932, by the Distribution section of the Electrical Engineering department.

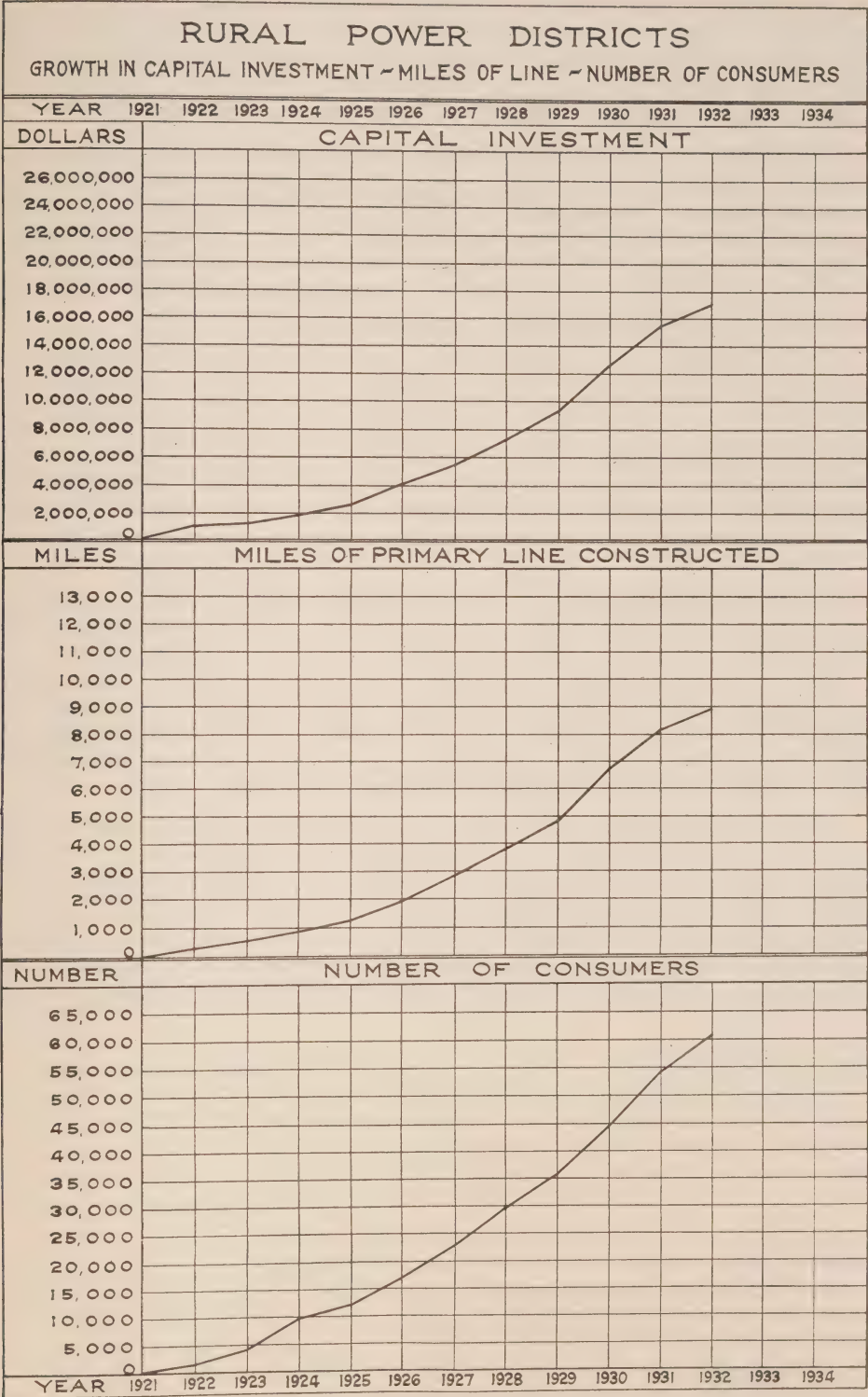
The Distribution section is responsible for the capital expenditure and engineering on all rural lines and, in general, on transmission lines which operate at a voltage of less than 13,200 volts. On request, engineering assistance is given to municipalities and outside companies. As a matter of expediency, the Distribution section does the engineering work involved in the erection of certain pole-type metering and transformer stations.

During the past few years a large amount of study has been given to methods of lowering the resistance of ground electrodes as one means of reducing hazards to life and equipment. This is particularly applicable to rural lines where the



RURAL ELECTRICAL SERVICE—TRANSFORMER MOUNTINGS

An interesting development of the past year is the use of a metal hanger bracket for transformer mounting to take the place of the wood crossarm previously used. The use of this bracket has resulted in cheaper transformer installations of more pleasing appearance. The pictures shown above illustrate the two methods of mounting a rural transformer.





absence of water mains makes it difficult to obtain a ground connection of low resistance. Tests have been made on the resistance of some 18,000 grounds and specifications for the necessary improvement have been issued in 44 rural power districts in which there are some 8,000 ground connections. Of these, some 5,200 ground connections now meet the standard of 25 ohms or less.

In order to obtain definite information as to the effects of the soil, seasonal weather conditions, types of electrodes and methods of treatment on ground terminal resistance, test stations have been installed near Toronto where periodic tests are being made. Four test stations were installed in different soils namely, sand, gravel, clay and rock. At each of these stations, twelve different terminals were installed. These terminals include driven rods and pipes and buried strip and mesh. Some of the terminals are treated with various salts.

Weekly tests of the resistance of each terminal are made and it is anticipated that, at the end of a year's testing, the results obtained will materially assist in determining the most effective type of electrode to use in each class of soil.

During the past year, standard specifications have been prepared covering the installation of that part of the consumers' service line between the Commissions' line, which is usually on the highway, and the consumers' buildings. It is expected that this will lead to a higher standard of construction than has obtained in the past.

A field inspection has been made of railway and telephone crossings on distribution feeder lines which have been in service since 1918, and the work of bringing these crossings up to a satisfactory condition is under way.

During the past year this section has worked in conjunction with fuse manufacturers in the development of a universal fuse which can be used with all types of fused cutouts. This fuse is now being used and considerable improvement in operating conditions has been reported.

When the first rural lines were constructed, the distribution voltage in general use was 4,000/2,300 volts which was satisfactory for the areas originally developed. The extension of rural lines into more sparsely settled districts made the use of higher voltages necessary for economical transmission of power. The use of 8,000/4,600 volts, where necessary has proved satisfactory although, in the past year, developments on Manitoulin island and in the area east of Bracebridge in the Muskoka district involved distances beyond the economical limit of 8,000/4,600 volts. In these districts, a distribution voltage of 12,000/6,900 volts was used.

## SECTION VII

### TESTING—RESEARCH—INSPECTION

The report of the Testing and Inspection department is this year presented in a form somewhat different from that in which it has previously appeared. The material is classified according to the nature of the work rather than under the several divisions of the Department. This permits of a more concise statement of its activities.

The Testing and Research Laboratories comprise the Electrical Laboratory, Engineering Materials Laboratory, Chemical Laboratory, Illumination Laboratory, and the Photographic and Blue Print branches. The Approvals Laboratory is charged with the duty of administering the Rules and Regulations of the Commission governing electrical equipment. It is composed of a staff of laboratory engineers and factory inspectors; the former are engaged almost entirely in making laboratory tests and the latter in making inspections in the factories and in the field. The Electrical Inspection division is responsible for the administration of the Rules and Regulations of the Commission governing electrical installation. It is organized in districts covering the entire Province, in each of which one or more inspectors are stationed.

In the Testing and Research Laboratories, the routine testing has continued to increase during the year. The inspection of equipment purchased by the Commission has decreased materially especially during the latter part of the year. This decrease has synchronized with the completion of the Chats Falls generating station and transmission lines and of the Beauharnois and Abitibi transmission lines.

The research projects under way are not fewer than in the previous year, and there is no reason why they should be since the necessity for investigation is not measured by the industrial situation but by the needs of the Commission in its operations. As a matter of fact the present situation, which has placed the Commission in possession of a large amount of surplus power, has given rise to one or more investigations of primary importance.

The work of the Approvals Laboratory will be enlarged next year by reason of the withdrawal by Underwriters' Laboratories of its approval testing service respecting electrical equipment in Canada. This step will be taken by Underwriters' Laboratories on January 1, 1933, and is the result of the expressed desire on the part of Canadian manufacturers to have the approval testing and labelling of their product carried on by a Canadian laboratory. The Commission will co-operate with the Canadian Engineering Standards Association in this work

and in the preparation of specifications for the guidance of the Approvals Laboratory. Underwriters' Laboratories will also continue to co-operate, as in the past, with the Commission and with the Canadian Engineering Standards Association in the exchange of information and of standards. The principal products involved in this change are wire, cable and conduit.

The revenue from fees in the Electrical Inspection division has decreased as was to be expected in view of the continued depression in the building industry.

## TESTING AND RESEARCH LABORATORIES

The work of the Testing and Research Laboratories may be grouped into several classes, according to the purpose for which the desired information is to be used. In the first class are routine tests made on samples of materials or manufactured articles to determine whether or not they meet the specifications under which they were purchased. In the second class are investigations of new materials and processes with the view to check the claims made for them and to determine their applicability to the Commission's work. The third class includes tests to determine the causes of and remedies for difficulties that arise in the construction and operation of the Commission's properties, and investigations to find improved methods or better materials, to eliminate operating hazards and to develop new uses for power. Some of these involve original research.

### Statistical and Routine Work

During the year, the Electrical Laboratory made 16,027 tests, the Chemical Laboratory 1,497, the Engineering Materials Laboratory 1,762, and the Photometric Laboratory 17,483. The Blue-Printing branch completed 4,736 orders, and made from 13,126 tracings 93,100 prints of a total area of approximately 300,000 sq. ft.; the Photographic branch completed 664 orders for developing, printing, enlargements, copying, lantern slides, etc., and the taking of pictures, both still and movie, in studio and field. The principal products involved in the tests made by the laboratories were insulating oils, linemen's rubber gloves, insulating blankets, wire and cable, electrical meters of all kinds, miscellaneous insulating materials, cement, concrete, transmission line materials, such as cable joints and suspensions and line hardware, lubricating oils, paints, metals of all kinds, luminous lighting units and automobile headlamps.

These tests made demands upon all the testing equipment in the laboratory and upon the ingenuity of the staff in modifying equipment for particular uses and in devising new equipment when necessary. The volume of this work was approximately the same as that of last year.

### Inspection Work

The volume of inspection work was well maintained for the first part of the year but was substantially less during the latter part owing to the completion of the different power developments that had been under construction.

### Transmission Line Materials

Materials for transmission line construction necessitated a large amount of detailed inspection. Articles, such as bolts, cross arms, cross-arm braces, top



pins, brackets, galvanized guy wire and clamps, copper conductors, and other materials used for low-tension distribution lines are regularly inspected. Material used for high-tension lines such as tower steel, line conductors, line fittings, insulators are given careful attention.

During the past year the Laboratory supervised the creosoting of some 6,200 red pine and jack-pine poles. In such work it is necessary to know that the wood is properly seasoned, that the necessary absorption and penetration is obtained and that the creosote oil meets the requirements. In this particular work about 77,000 gallons of creosote were used.

### **Equipment**

The method followed in inspecting equipment for use on the Commission's power houses and stations has been explained in previous reports. This is very thorough and the aim in view is always to obtain the best possible material and workmanship. During the year, the department inspected five turbines of total capacity 330,000 h.p., 890 transformers of capacity 920,000 kv-a., 52 oil circuit-breakers of capacity 7,248,000 kv-a., 20 generators and motor-generator sets of capacity 540,000 kv-a. These items of equipment were used in the plants constructed by the Commission or in those plants from which the Commission is to receive power under its contracts.

### **Special Mention**

The inspection of welding has been given special attention. During the year, approximately 200 welded tanks for transformers, circuit breakers and oil storage were inspected. The welding of rotors, stator frames and generator bearing brackets was also carefully inspected.

The department is required to make periodic inspections of all major concrete structures belonging to the Commission for the purpose of detecting incipient deterioration. During the year, several such inspections were made including the three generating stations and related structures at Niagara Falls, the nine plants of the Central Ontario system, those at Calabogie, Galetta, High Falls, and Wasdells Falls, and the dam at Eugenia.

## **Research**

The classification of research work for the department is given in the introductory paragraph above. It involves investigations in the electrical, physical and chemical field and deals with the properties of materials, phenomena in electrical circuits, remedial measures for observed phenomena and allied problems.

### **New Methods and Materials**

It is essential that the Commission be kept fully informed of new developments in materials and methods that might be useful to it. Work of this kind carried out during the year has related to methods of splicing wire and cable; mechanical clips for low-tension lines; devices for fastening apparatus to concrete and masonry surfaces; linemen's climbers; paints claimed by their manufacturers to have special properties or to be superior to those in regular use; thermal insulation for steam boilers; clamps, vibration dampers and other line materials; strain insulators; welding rods, and cement having high early strength.

### Investigation of Troubles

This type of investigation is almost infinite in variety and the problems attacked often require considerable ingenuity in their solution. Among the problems of this type attacked during the past year, for which satisfactory solutions were obtained, may be mentioned the following:

Brittleness in a new malleable iron suspension clamp was found to be due to galvanizing.

The failure of nuts on bolts used on turbine runners at Queenston was found to be owing to the wrong composition of the metal used.

Sixteen different deposits in insulating oil were examined to determine the cause and the remedy.

Examination of several insulating oils found to be high in acid, led to recommendations that they be reconditioned or discarded.

Comparative studies of mechanical clips used in low-tension line construction.

Metallurgical examination of cast-steel rotor to determine the character of the metal in section in which defects appeared.

### Investigations Leading to Improvements in Methods or Materials

The following studies were made in connection with problems submitted to the department:

Metallurgical examination of metal parts involved in fatigue failures to determine to what extent the character of the metal was the cause.

Studies of the prevalence of "ghosts" or ferrite segregations in large steel generator and turbine shafts. Thirty shafts were examined.

The use of unannealed cold-headed tower bolts. They were found to be satisfactory if the material used was properly processed and carefully tested.

Comparative studies of the different grades of material used in making steel window sash to determine their resistance to corrosion.

Elimination of defects occurring in transmission tower steel galvanized by the hot-dipped process. The cause of these defects has not been completely determined but improvement has been made in the quality of the zinc coating.

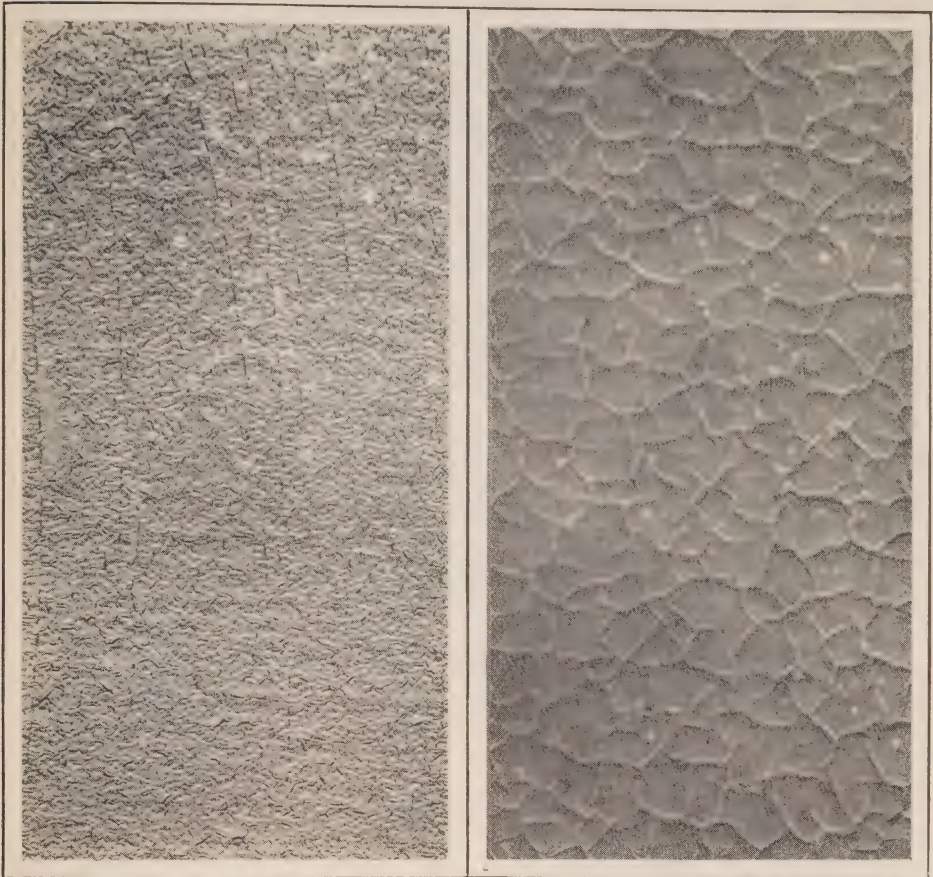
Studies in co-operation with the Transmission section, of the fatigue of conductor and ground-wire cables in service owing to vibration. This involved the examination of a number of cables which had failed in service. Similar attention has been given to improvement in the quality of galvanized ground-wire cable.

The use of old steel rails as a substitute for wooden poles on low-tension lines. The rails were tested for stability when set in earth, crushed rock and in concrete. Measurements were made of the deflection of the rails with different loads applied at their tops.

Development, in co-operation with the Municipal department, of a suitable metal for grain choppers.

The effect of temperature on the life of different insulating materials.

Methods of protecting steel tower footings at and below ground level.



SAMPLES OF FAILURE OF MACHINERY ENAMEL OF INFERIOR QUALITY FOR EXTERIOR EXPOSURE

Magnification fourteen times—Chemical Laboratory

### Wood Poles

A great deal of attention has been given of late to the decay of wooden poles in service. Three years ago a testing ground was established north of Barrie and some sixty poles were placed under test. These poles were of different kinds of wood, some untreated and others treated in various ways. Already valuable data are being obtained from these tests and this year a second test ground was established nearer Toronto in a different kind of soil. Besides these tests, data are being gathered on the performance in service of different kinds of poles variously treated.

Out of this work has arisen a need for detailed information on the properties of different kinds of wood, the methods and materials used in preserving timber, the mechanical testing of wood and a classification of soils that could be used in the field inspection of poles. A study of available literature covering all of these points has been made and reports prepared.



As a corollary of this work assistance has been given the Operating department in developing a method of stubbing poles that would eliminate the present unsightly wooden stub. Various schemes have been investigated and the most promising of these is now being tried out under service conditions.

### **Insulating Oils**

A most important problem that has been given a great deal of study over a period of years is the reconditioning of insulating oil that has deteriorated to a point where it is uneconomical or hazardous to continue it in service. Commercial methods of reconditioning have been found unsatisfactory when applied to insulating oils and a method of refining has been worked out in the Laboratory and successfully applied in the treatment of several thousand gallons of old oil. The reconditioned oil meets the most rigid tests for a high-grade insulating oil and there now remains the problem of developing an economical and efficient unit for carrying out the process in the field that will be compact and portable and have the necessary capacity.

### **Paint**

During the year, 156 paints of all kinds were examined. Some of these were samples from purchases, tested to see if they were of the quality specified, and some were new products never previously investigated. A large number consisted of groups of similar paints of different manufacture tested comparatively to determine their usefulness for certain types of service.

A number of field inspections of structures painted in past years has been made to correlate Laboratory tests with field service, also of structures which were to be repainted, to permit the formulation of recommendations to those in charge of the work as to the most suitable methods and materials. An analysis has been made of both field and laboratory data obtained during the past few years in painting towers as a guide in selecting the paints to be used in the extensive painting of towers carried out this past year. During the year also, the Laboratories, in co-operation with the different departments using paint, have completed a revision of the standard colour card which is now being used.

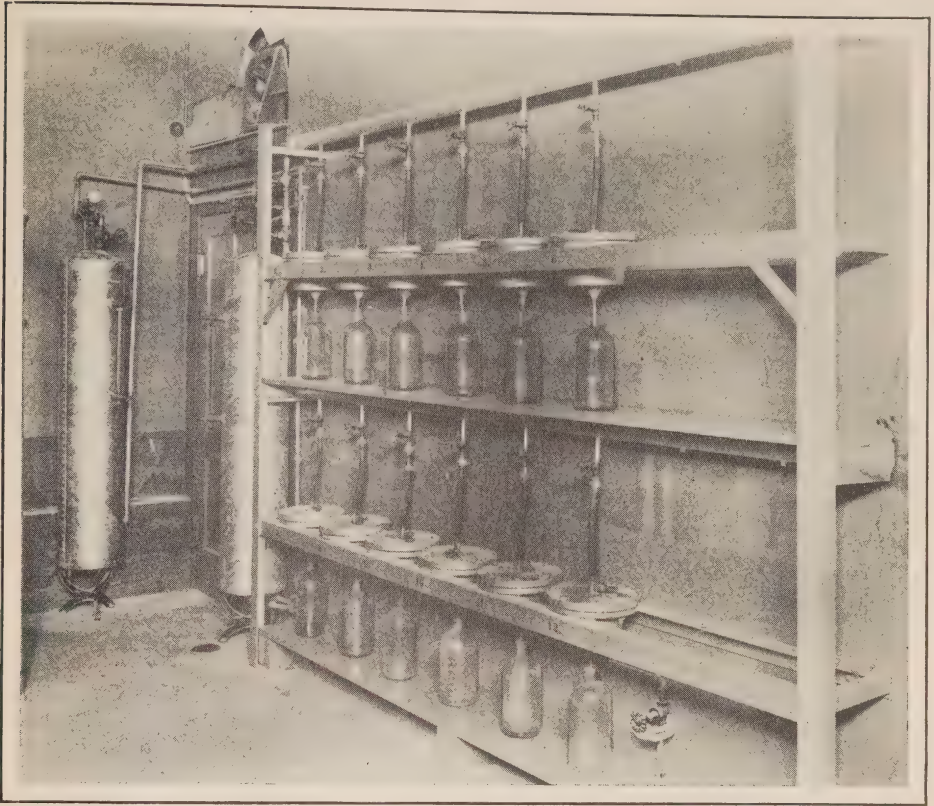
### **Head Office Extension**

A number of investigations have been carried out in connection with the development of the plans and specifications for the proposed head office extension, as follows:

Determination of the proportions required to give a concrete weighing 80 lb. per cu. ft. and having a 28-day strength of 600 lb. per sq. in. or better. This involved a study of light-weight aggregates and their practical use in construction. The work has cleared up several difficulties previously experienced in handling this type of concrete and provided data from which light-weight concrete of varying properties may be designed.

Consideration of the causes of staining in building stone and the precautions to be taken to overcome this trouble, particularly the tests necessary to detect those materials liable to cause staining. Comparative tests were made on a number of portland cements and limes to determine their tendency to stain.

Data has been gathered on the deterioration of different types of available building stone under local climatic conditions.



APPARATUS FOR DETERMINING THE PERMEABILITY OF CONCRETE MIXTURES  
Concrete Laboratory

### Concrete

The principal investigations in this field have been as follows:

The effect of percolating water on the integrity of concrete:—Water under pressure has been continuously passed through a group of concrete specimens for about eight months and the kind and quantity of the substances dissolved therefrom determined in the hope that the data obtained will shed light on the rotting of concrete by percolating water.

A study of the probable variations in compressive strength of concrete as they occur on different jobs:—This study is to be used to assist the Commission's engineers in revising the present classification for concrete and determining the proper factors of safety in the design of mixtures and the setting of working stresses. The results of over 13,000 tests were analyzed in this study. A report on one phase of this work has been completed and another is in preparation.

The use of artificial sand in concrete where natural sand is not readily available:—The preparation of the different artificial sands has required a great deal of time owing to the necessity of screening all materials into nine different sizes in order to control the gradings of the aggregates used in the tests. About six tons of fine aggregate and seven tons of coarse aggregate have been crushed and screened, and are ready to use.





SODIUM SULPHATE TEST FOR SOUNDNESS OF CONCRETE AGGREGATE  
Concrete Laboratory

Left: Sample before treatment. Right: Same material after treatment, showing complete disintegration

The advisability of using certain admixtures to increase the workability of lean concrete mixtures:—Several admixtures were considered, all of which increased the workability to some extent, but only one was found which was more helpful in this respect than would be the cement that could be added for the same cost.

The properties of concrete made with high early strength cement:—A limited investigation designed to show the possibilities of this class of cement in the work of the Commission and to give information that will permit comparisons between the cost of obtaining certain special results either with high early strength or standard portland cements.

#### **Interference with Wired Lines and Radio Communication**

Well-directed effort has been applied to problems involving interference caused by slight disturbances on power systems, upon adjacent wired communication circuits, and also with radio reception from broad-casting stations. The demands made on the performance of power system equipment become more and more exacting with extension of power and communication systems in order that inconvenience and possibly more serious consequences may not ensue to telephone users. Equipment which operates quite satisfactorily for power purposes may prove quite troublesome in its effects on extensions of either power or communication services or both. A number of cases are being dealt with which require special treatment and the technical resources of the staff and equipment are called upon in the treatment of these problems.

#### **Resuscitation**

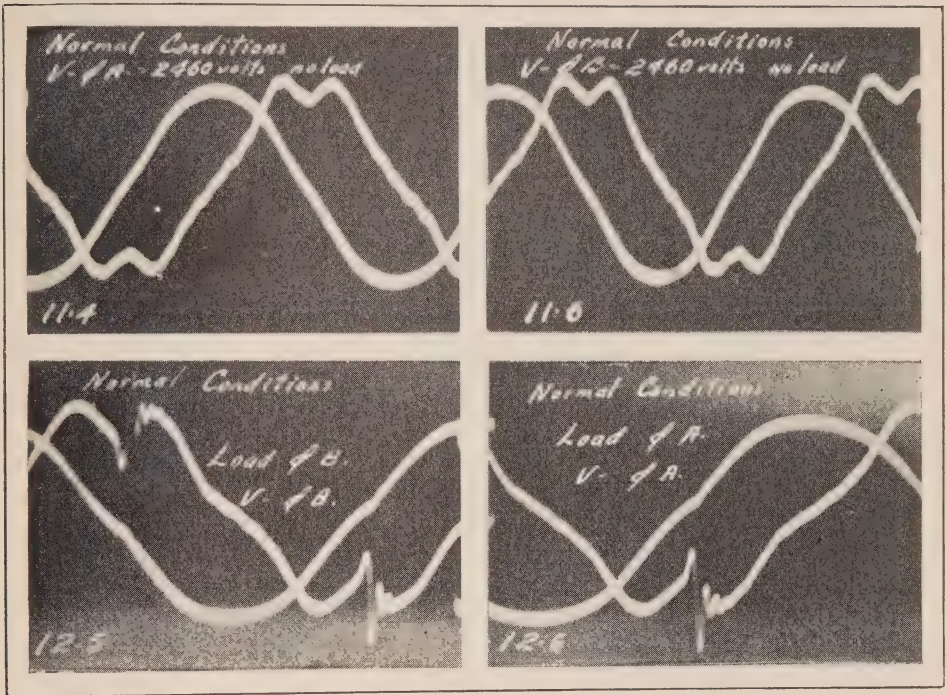
Previous work on resuscitation which had been done at the University of Toronto was continued during the past year under the direction of the Accident Prevention department. A member of the Laboratory staff was assigned to



assist in electrical matters during experimental work carried on at the Banting Institute. It is expected that the results of this work will be made public and be found to have considerable value in problems relating to electric shock and recovery of patients therefrom.

### Oscillographic Studies

The oscillograph takes a very important part in investigations relating to electrical conditions in circuits and equipment. Tests have been made whereby its use was extended to the study of variable mechanical stresses and it is expected that auxilliary devices will be developed which will facilitate more exact study of stresses in materials and accelerating forces.



OSCILLOGRAPH RECORDS

Illustrating use of the oscillograph in analyzing conditions in electric circuits

### Communication

Methods of communication between remote points on the systems for operating convenience have been reviewed, and tests were made on certain lines in co-operation with the Engineering department tending toward the installation of more modern and economical equipment.

### Hazards to Life and Property

Several problems involving hazards to life and property have been dealt with during the year and field tests made to verify or disprove opinions based only on theory. For example, how much leakage current can be tolerated through a switch-stick before it becomes hazardous to an operator? Why should lines, considered to be absolutely dead, be well grounded before being worked upon?

## Miscellaneous

### New Equipment

- Major items of new equipment acquired during the past year are the following:

A binocular microscope,—an instrument purchased primarily for the examination of defects in metals, but which is used daily for many other purposes.

A Bomb calorimeter for calorific determinations on fuels.

A Burgess turbidimeter for sulphur determinations.

A 12-unit apparatus for testing the permeability of concrete. This includes an automatic air-compressor unit which also supplies compressed air to other parts of the Laboratory.

The moist room used for the curing of cement and concrete specimens has been modernized by the installation of atomizer fog-sprays and an improved temperature regulation. The room can now be kept continuously at a relative humidity of over 95 and within a temperature range of 5 deg. Fahr.

A machine has been installed in the Approvals Laboratory for testing the durability of flexible cords for household appliances.

### Standardization

The department has continued to co-operate with the Canadian Engineering Standards Association and other standardizing and scientific organizations although to a lesser extent than in previous years. Those standardization projects which are most active at the present time are concerned with the Canadian Electrical Code. A Special Committee is now preparing a revised draft for the next edition of the Code which it is hoped will appear in 1933. The preparation of Part II of the Code, which includes specifications for the approval testing of electrical equipment is being pressed forward vigorously. The department is represented on the Committees engaged in this work.

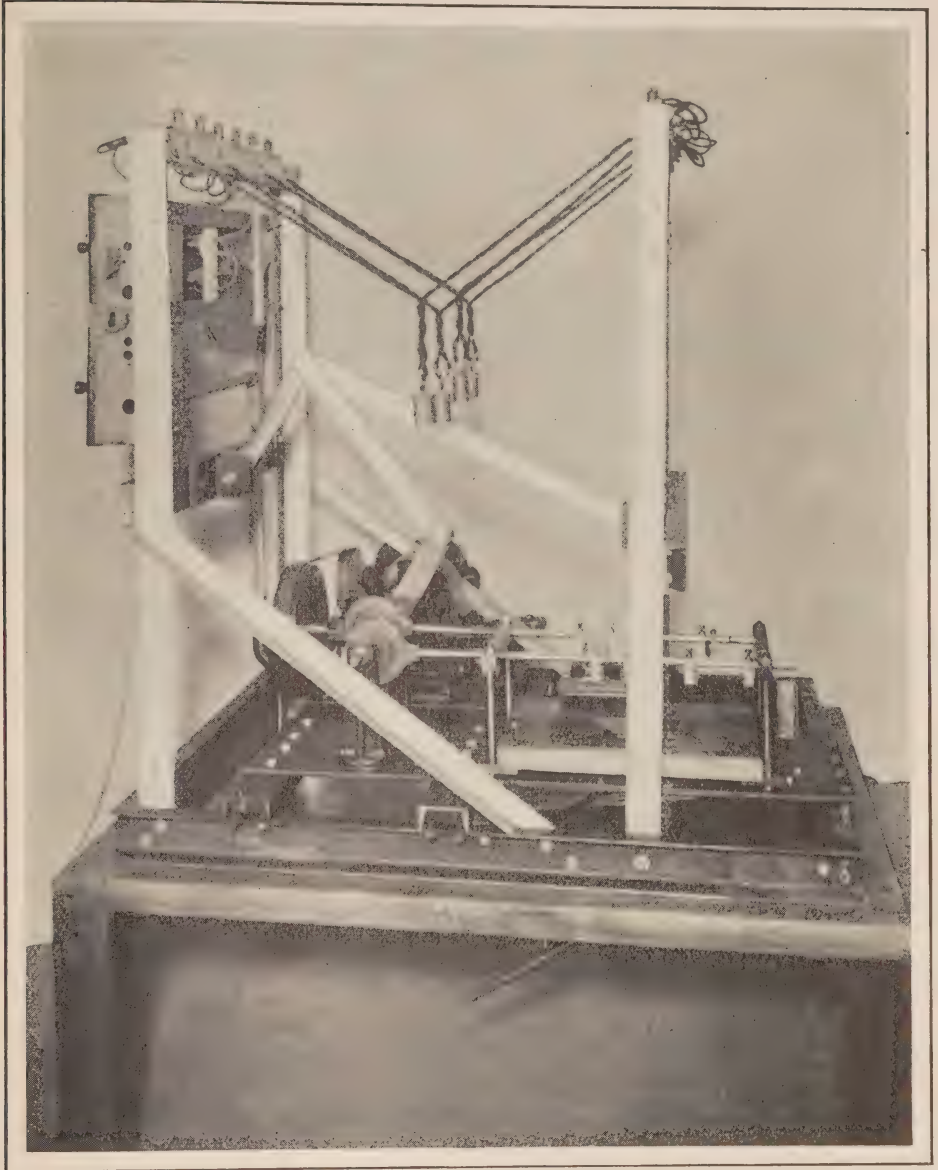
The department has also assisted in Committee work in connection with Part III of the Code which includes standards for outside wiring. Assistance has also been rendered to the Canadian Engineering Standards Association in the formulation of standards for meters. The department is also represented on several Committees of the National Research Council dealing with meters and with other subjects.

### Lighting Service

The Illumination Laboratory, during the year, submitted sixteen reports under the lighting service plan which has been followed for several years. Requests for these reports come from a relatively small number of municipalities which indicates that there is a large opportunity not fully seized by the municipalities in making use of this service which is available to them.

### Lamps

The efficiencies of the Hydro multiple lamps have been increased. Specifications for series lamps have been entirely revised including a change in the system of rating. These revisions were made as a result of experience during recent years.



MACHINE FOR TESTING FLEXIBLE CORDS  
Approvals Laboratory

### APPROVALS LABORATORY

Motor operated devices were responsible for the largest number of approval applications. In this class are included small portable motors, washers, vacuum cleaners, fans, etc., blowers for coal furnaces, refrigerators, oil burners, and electric clocks. Heating devices come next in order.



### Statistical

The following table contains a summary of the testing and inspection work carried on by the Approvals Laboratory during the past three years:

	1930	1931	1932
Applications for approval.....	706	797	660
Special approval tests (Note 1).....	32	127	178
Listing (Note 2).....	168	105	52
Factory inspections.....	.....	2,005	2,291 (Note 3)
Factory inspection reports.....	.....	3,120	3,039 (Note 3)
Labels sold.....	635,493	631,543	696,100 (Note 4)

Note 1: Special approval tests include those made, usually at the request of the Electrical Inspection department, on installations of unapproved apparatus in connection with which the manufacturer does not desire to obtain the regular listing on account of the small number of items sold.

Note 2: This item includes products which have been approved and listed by Underwriters' Laboratories of United States and have been accepted by the Commission as satisfactory without further approval test. A considerable decrease in 1932 will be noted.

Note 3: The number of factories visited increased during the year, but these were visited on a reduced schedule; consequently the number of inspection reports has decreased.

Note 4: There was an increase in the number of labels sold during 1932. This was caused by the issuance of five new types of labels. Of the types in use before November 1, 1931, the sale decreased by more than 23 per cent in 1932.

Owing to the change in the method of handling radio devices, the number of tests made in the Laboratory decreased in comparison with last year. This was one of the objects of the arrangement reached with the Radio Manufacturers' Association, which has worked out to the satisfaction of all concerned.

### Specifications

As stated elsewhere in the report, the Commission is co-operating with the Canadian Engineering Standards Association in the preparation of specifications under Part II of the Canadian Electrical Code. These specifications will replace and supplement those previously issued by the Commission. In accordance with the procedure adopted the original draft of the specifications is prepared in the Laboratories and is forwarded to the Canadian Engineering Standards Association. It is then circulated to the various members of the Panel of the Canadian Engineering Standards Association on Part II of the Canadian Electrical Code, to manufacturers interested, to inspection authorities and others. After comments have been received a meeting of the Panel is called at which a full discussion is held and an effort made to reach agreement. When agreement has finally been reached the specification is approved by the Canadian Engineering Standards Association and is published. It is adopted by the Commission and used by the Approvals Laboratory in connection with the particular product covered by the specification.

Two important specifications have been published during the past year. One on "General Requirements" includes a list of definitions and general clauses common to all specifications. A specification for "Power-Operated Radio Devices" has also been issued. Other specifications in the course of preparation include: Electric Signs; Electrical Equipment for Oil-Burning Apparatus; Enclosed Switches; Service Entrance and Branch Circuit Breakers; Electric Clocks; Portable Displays and Incandescent Lamp Signs; Condensers; Electric Fixtures; Electric Floor Scrubbing and Polishing Machines; Fractional Horse-

power Motors; Electric Heating Pads; Portable Lighting Devices; Transformers for Luminous Tube Signs; Electric Tools; Outlet Boxes; Industrial Control Equipment; Carbon Arc Lamps for Therapeutic Use; Soldering Lugs.

### **New Business During 1932**

Many United States manufacturers of appliances have established branch factories in Canada and have applied for approval service. Particularly—hair-dressing equipment, refrigerators, oil burners and wiring devices.

The desire to use cheaper fuel for heating of domestic and business premises has resulted in largely increased sales of motor-driven blowers and stokers for forced draft use on furnaces. As these are usually installed in basements having floors of a more or less conductive nature it is necessary that they be free from electrical hazard and properly grounded. It was, therefore, considered essential that electrical connection to the motor must be made only by armoured cable or conduit. Certain mechanical hazards were also found in the more cheaply constructed blowers. In order to insure a minimum approved standard of construction the Electrical Inspection department has required that all such blowers shall be approved and listed thus resulting in much new work in this section of the Laboratory.

A problem has been created in Ontario by the dumping of large quantities of second-hand motors mostly of types used on washing machines, oil burners, etc., and of second-hand bell-ringing and toy transformers from the Niagara-Buffalo district where 25-cycle current is being changed to 60 cycle. In many cases, these devices have been resold without proper overhauling and inspection by dealers not equipped to make the necessary tests. The Laboratory has issued specification requirements for certain types of this equipment and is preparing specifications for other types.

### **Substandard Water Heaters**

It was hoped that the effect of the general distribution in 1931 of the warning notice regarding the sale of substandard water heaters would be quite effective in checking their distribution in Ontario for some considerable time, but early in 1932 it was seen that still more active measures would be required.

The co-operation of the Customs officers was obtained not only in Toronto but in some of the other border districts with the result that many persons who were importing in ignorance were warned before clearing the appliances. However, the active advertising campaign carried on by manufacturers of these devices in the United States rendered it necessary to do even more than this. Consequently, another warning circular was prepared for broadcasting throughout the Province and copies were distributed. It was also sent to all known manufacturers of water heaters of doubtful design and to other inspection authorities throughout Canada. In Ontario the distribution of the circular was assigned to electrical inspectors and in Hydro municipalities to the local managers.

It is believed that this propaganda has now effectively stopped the importation into Canada of practically all of those substandard types of portable water heaters in which the heating element is directly in contact with the water. There are of course a number of approved designs of stationary water heaters of this type, but in this case protection to the user is, of course, obtained by definite grounding of the non-current-carrying metal parts.

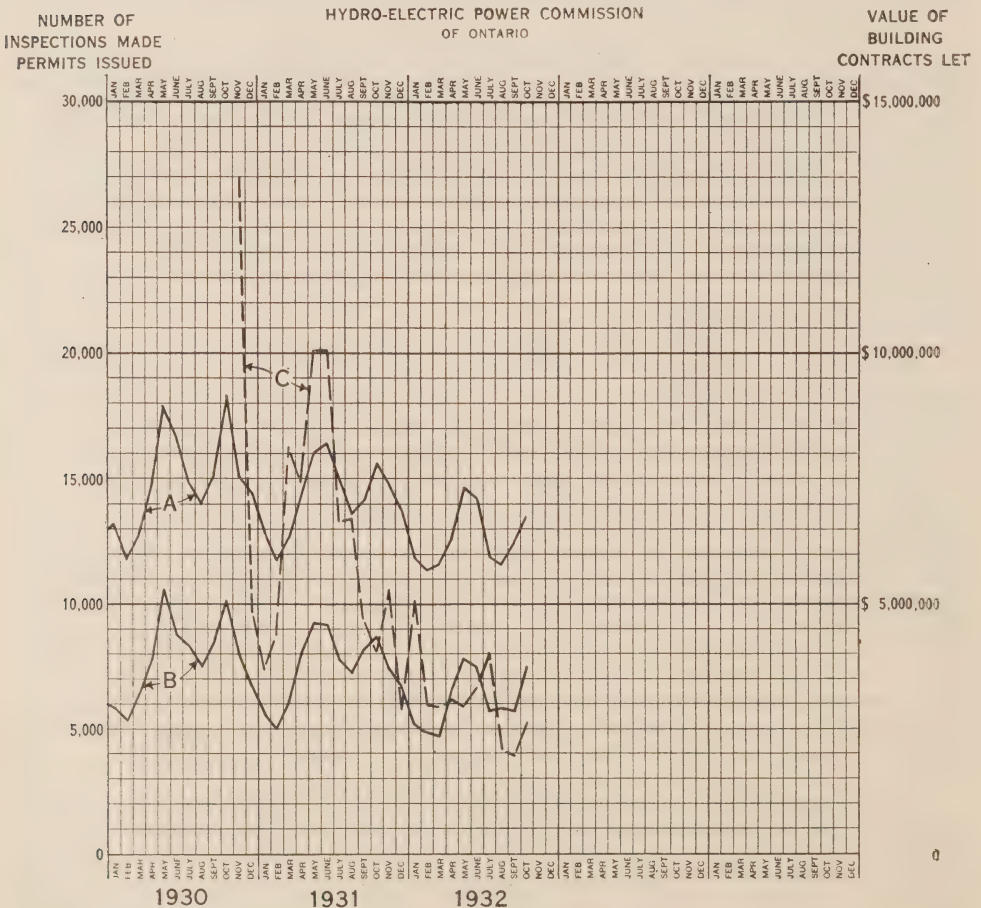
# ELECTRICAL INSPECTION DEPARTMENT

The functions of the Electrical Inspection Department were described in the Twentieth and Twenty-fourth Annual Reports and need not be repeated. It will be appreciated that the volume of work handled is governed to a large extent by the amount of building construction carried on throughout the Province, the value of which was, in 1930 \$116,203,200, in 1931 \$85,087,900 and in 1932 \$38,488,900.

The number of paid applications for inspection received amounted to 76,171, a decrease of 15 per cent from 1931.

A total of 153,895 inspections was made, a decrease of 13 per cent from the previous fiscal year.

The accompanying graphs will allow a complete visualization of the number of permits issued and inspections made in 1930, 1931 and in 1932.





### Fires

Many fires are reported each year, by the newspapers throughout the Province, as having been caused by defective electric wiring. In a number of instances the electric wiring has been found to be so badly damaged that it is impossible to state, with any degree of certainty, whether or not the source of the fire had been in the electrical installation.

The fires referred to below, 20 in all, which were among those reported as having their origin in defective wiring, have all been definitely traced to electric wiring or to electrical apparatus. The individual causes have been classified as follows;—

- 8—Flexible cord, overfused.
- 5—Armoured cable.
- 1—Joints in service conduit.
- 1—Grounding of 4,400-volt secondary.
- 1—Defective thermostat in warming pad.
- 1—2-Plate stove fed from drop cord.
- 1—Electric iron left on at night in tailoring shop.
- 1—Knob and tube wiring brought through metal plate without proper insulation.
- 1—Cover removed from vapor-proof switch in gasoline pump.

Forty per cent of the fires attributed to electric wiring were caused by flexible cord extensions which were found, upon investigation, to be overfused; twenty-five per cent were found to have originated in defective armoured cable, the metallic sheating of which, on account of its high resistance, failed to open the circuit fuses. The short circuited current, returning to ground, generated sufficient heat in the cable armour to ignite adjacent flammable material.

### Infractions of Regulations

Eighty three persons and companies were prosecuted for various infractions of the Rules and Regulations. The majority were charged with having installed electric wiring or apparatus without first having obtained a permit to do so and for refusing or neglecting to remedy defects in electric wiring installed by them. Fines amounting to \$660 were imposed, along with a number of suspended sentences.

### Grounds on Rural Installations

During the past year the department made 3,824 tests to determine the conductivity of neutral and service equipment grounds on rural installations. The readings taken have given the department a knowledge of the ground protection on each rural installation prior to it being connected to the supply lines. All ground readings together with soil and weather conditions and the type of ground used are turned over to the Engineering Department and to the Commission's Laboratory for study with a view towards improving the grounding methods now in use.

As in previous years, the routine work of inspecting the older and more obsolete type of installation has been carried out. As can be expected, consumers are much more difficult to approach with suggestions to improve the conditions in their electrical installations than in previous years.

In all, 2,637 installations were overhauled or rewired at a cost of approximately \$130,912.

## SECTION VIII

### ELECTRIC RAILWAYS

#### THE SANDWICH, WINDSOR AND AMHERSTBURG RAILWAY COMPANY

The revenues of the Sandwich, Windsor and Amherstburg Railway have been seriously affected by the continued industrial depression. The fact that the Border Cities municipalities are dependent principally on the automotive industry (which is one of the major industries whose production has been very seriously curtailed) has been one of the chief causes of the revenue decreases.

The railway in recent years has depended to a large extent on the daily travel of the artisan for its revenue. The lack of employment, the curtailing of commuters between Detroit and Windsor, and the reduction in population caused by the depression, are also factors in the reduced riding habit.

#### Operation

In 1932 the gross earnings were \$568,452 as compared with \$726,044 in 1931, a decrease of \$157,592. The 1932 operating expenses were \$564,692 as compared with \$732,184 in 1931, a decrease of \$167,492. Net earnings were \$3,759 as compared with a deficit of \$6,140 in 1931.

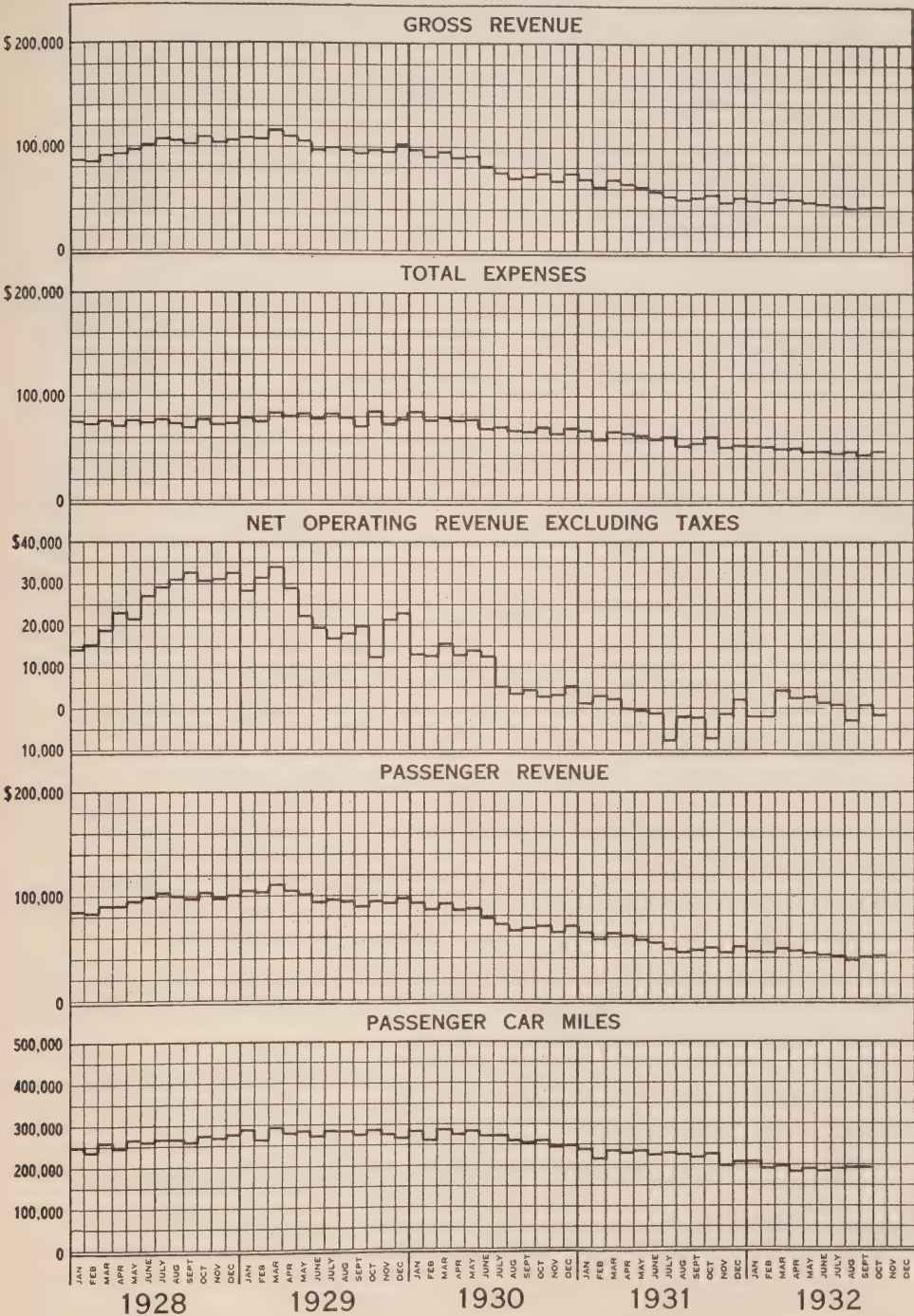
The adjustment of the 1931 power bill was made too late to include in the 1931 report and the amount—\$9,885 has been credited to 1932 operating expenses. Similarly, the 1932 adjustment has not been made at this writing.

The operation of local service on Howard avenue was taken over on September 16, 1932, after the closing down of the Windsor, Essex and Lake Shore Railway.

The continuance of the industrial depression is reflected in the earnings of the railway, which are the lowest since 1922. Operating expenses are the lowest since 1923.

The accompanying chart indicates the record of the railway for the past five years.

SANDWICH, WINDSOR AND AMHERSTBURG RAILWAY  
OPERATING STATISTICS





The mileage operated by the various types of cars during the year is as follows:—double truck, air brake, two-man cars, 1,546 car miles; interurban cars 469,736 car miles; single truck safety cars 470,920 car miles; double truck safety cars 1,389,835 car miles; express cars 11,260 car miles; service cars 12,398 car miles; buses 3,392 bus miles; total 2,359,087 car and bus miles.

### SANDWICH, WINDSOR AND AMHERSTBURG RAILWAY

#### Operating Statistics, 1932

Route-miles:	
City trolley.....	24.81
Amherstburg interurban.....	13.54
Tecumseh interurban.....	5.34
Total route-miles.....	43.69
Passenger and freight car-miles operated.....	2,346,689
Passenger and freight car-hours operated.....	230,383
Passengers carried.....	9,348,207
Percentage of transfer passengers to revenue passengers.....	20.29%
Passenger cars operated.....	60
Passenger buses operated.....	2
Passengers carried per route-mile.....	213,966
Passengers carried per car-mile.....	4.0
Passengers carried per car-hour.....	40.5
Average mileage per car operated.....	38,867
Average mileage per bus operated.....	1,696
Average passengers per car operated.....	155,768
Average passengers per bus operated.....	107
Freight tonnage carried.....	955
Accidents 277 of which 195 were automobile accidents.	
Accidents per 100,000 car miles: 11.268.	

### THE WINDSOR, ESSEX AND LAKE SHORE RAILWAY

After considerable investigation and discussion, the discontinuance of operation of the Windsor, Essex and Lake Shore Railway was decided upon and the Windsor, Essex and Lake Shore Railway Association, which controlled the line, notified the Hydro-Electric Power Commission that the operation of the railway was to be discontinued on September 15, 1932. Arrangements were made with this end in view, and the operation of the railway was discontinued on this date.

The diamond crossings on the Michigan Central Railroad and the Pere-Marquette Railway at various points were removed and the equipment was stored in the car house at Windsor.

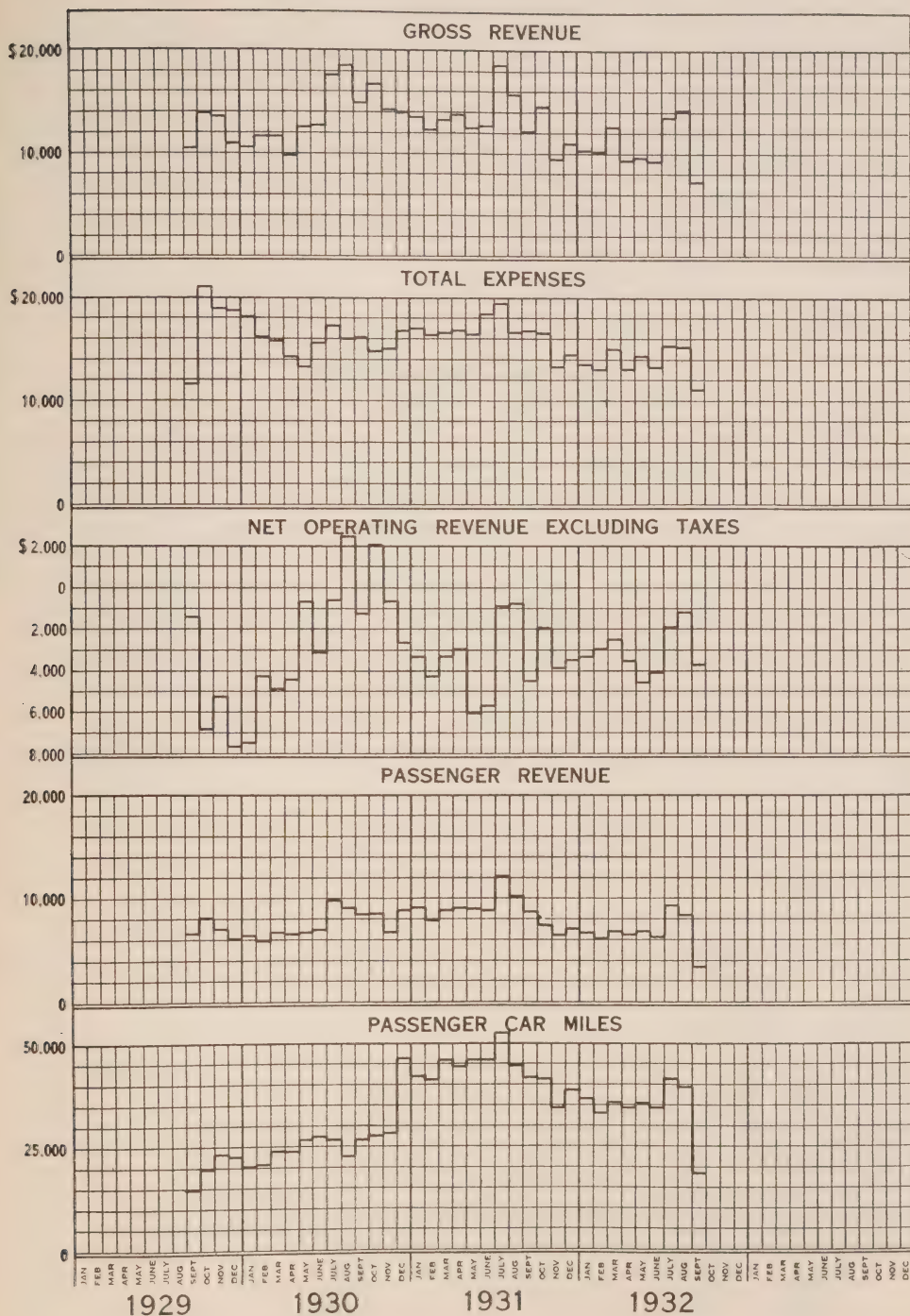
The portion of the railway on Howard avenue between Erie avenue and the Devonshire racetrack was leased to the Sandwich, Windsor and Amherstburg Railway.

The future of the railway has not as yet been decided upon definitely.

#### Operation

For the ten and one-half months of 1931-32 during which the road operated, the revenue was \$116,272, as compared with \$166,713 for the full year 1931. Operating expenses were \$151,581 as compared with \$202,546 for the year 1931.

## WINDSOR, ESSEX AND LAKE SHORE RAILWAY OPERATING STATISTICS



## WINDSOR, ESSEX AND LAKE SHORE RAILWAY

## Operating Statistics, 1932

Route-miles.....	39.747
Track-miles.....	45.802
Passenger cars operated.....	5
Passenger car-miles operated.....	374,842
Bus-miles operated.....	7,042
Freight locomotive miles.....	40,289
Express car-miles.....	487
Passenger car-hours operated.....	28,218
Passenger bus-hours operated.....	661
Revenue passengers carried.....	571,040
Transfer passengers carried.....	88,249
Free passengers carried.....	8,561
Total passengers carried.....	667,830
Percentage of transfer passengers to revenue passengers, local lines.....	19.68
Freight motor-cars operated.....	2
Freight motor-hours operated.....	4,277
Total passenger and freight car-miles operated.....	422,650

Accidents, 38.

Accidents per 100,000 car-miles, 8.9 in 1932; 12.5 in 1931; 21 in 1930.

GUELPH DISTRICT RAILWAY

## Operation

The operating revenue for the Guelph District Railways for 1932 was \$65,595 as compared with \$77,532 in 1931. The operating expenses for the year 1932 were \$73,380 as compared with \$78,284 in 1931. Taxes were \$354 as compared with \$363 in 1931. The net operating shortage for the year 1932 was \$7,784 as compared with \$752 in 1931. The interest and debenture payments were \$25,588 as compared with \$26,954 in 1931. Sinking fund requirements in 1932 were \$3,159 as compared with \$1,580 in 1931. Nothing was set aside for renewals. The deficit for 1932 was \$36,885 as compared with \$29,649 in 1931.

Included in the above deficit is \$7,987 which has been set aside for amortizing the original value of the railway line previous to the transfer of this road to the Hydro-Electric Power Commission; and also an interest charge \$3,713.

The freight earnings for the year 1932 were \$10,506 as compared with \$10,484 in 1931. The passenger earnings were \$54,373 as compared with \$64,369 in 1931.

## GUELPH DISTRICT RAILWAY

## Operating Statistics, 1931

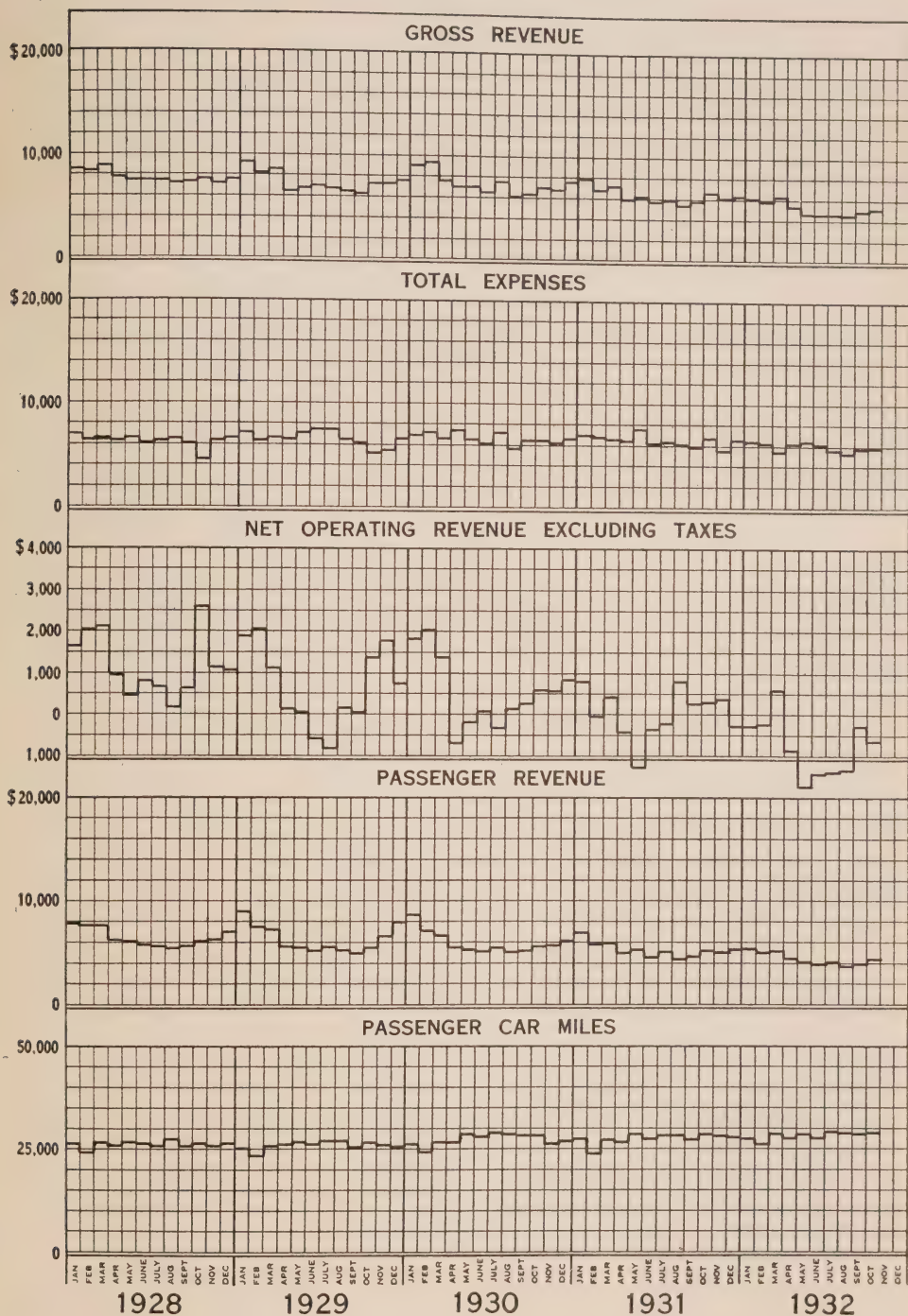
Route-miles:	
Trolley.....	6.41
Bus.....	5.99
Total route-miles.....	12.40
Track-miles.....	9.06
Passenger cars operated.....	7
Buses operated.....	4
Passenger car-miles operated.....	231,223
Bus-miles operated.....	94,099
Freight locomotive miles.....	10,391
Passenger car-hours operated.....	28,344
Passenger bus-hours operated.....	14,077
Revenue passengers carried.....	944,741
Transfer passengers carried.....	241,004
Free passengers carried.....	1,165
Total passengers carried.....	1,186,910
Percentage of transfer passengers to revenue passengers.....	25.5
Freight motor cars operated.....	1
Freight motor-hours operated.....	2,362
Total passenger, freight and service car-miles operated.....	336,055

Accidents:—twenty, of which sixteen were due to automobiles.

Accidents per 100,000 car-miles—1927, 8.24; 1928, 4.25; 1929, 12.3; 1930, 7.2; 1931, 4.45; 1932, 5.95.



## GUELPH DISTRICT RAILWAYS—OPERATING STATISTICS





## SECTION IX

### FINANCIAL STATEMENTS

#### Relating to Properties Operated by The Hydro-Electric Power Commission on Behalf of Municipalities

The following explanatory statement is submitted with a view to affording a satisfactory understanding of the manner in which the various operations of the Hydro-Electric Power Commission of Ontario are conducted and financed and thus contributing to the interest of those concerned either directly or indirectly with the work of the Commission.

The "Hydro" electrical undertaking of Ontario is an organization of a large number of partner municipalities co-ordinated into groups or systems for securing common action with respect to power supplies, through the medium of the Hydro-Electric Power Commission which under the Power Commission Act functions as their trustee. The undertaking as a whole, embracing all the operations from the provision of the power down to its final delivery to the ultimate consumer, involves two distinct phases of operations.

The FIRST phase of operations is the provision of the electrical power—either by generation or purchase—and its transformation, transmission and delivery in *wholesale* quantities to individual municipal utilities, to large industrial consumers, and to rural power districts. This phase of the operations is performed by the Hydro-Electric Power Commission of Ontario as trustee for the municipalities acting collectively in groups or "systems," and the financial statements relating to these collective activities of the municipalities are presented in this section of the Annual Report.

The SECOND phase of operations is the *retail* distribution of electrical energy to consumers within the limits of the areas served by the various municipal utilities and rural power districts. In the case of rural power districts, which usually embrace within their confines portions of more than one township, the Hydro-Electric Power Commission not only provides the power at wholesale, but also—on behalf of the respective individual townships—attends to all physical and financial operations connected with the distribution of energy at retail to the consumers within the rural power districts.\* The financial statements relating to the rural power districts are also presented in this section of the report. In the case of cities, towns, many villages and certain thickly populated areas of townships, retail distribution of electrical energy provided by the Commission is in general conducted by individual local municipal utility com-

\*For further information respecting rural power districts consult latter portion of Section III in this Report.



missions under the general supervision of the Hydro-Electric Power Commission of Ontario. The balance sheets, operating reports and statistical data relating to such individual electrical utilities are presented in Section X of this report.

Having the foregoing distinctions respecting wholesale and retail electrical service in mind, the following brief notes will assist to an understanding of the economic structure and of the general plan of administration of the undertaking, and will make clearer the financial tables herein presented. The basic principle governing the financial operations of the undertaking is that electrical service be given by the Commission to the municipalities and by the municipalities to the ultimate consumers at cost.

The charges for power supplied by the Commission to the various municipalities vary with the amounts of power used, the distances from the sources of supply and other factors. The entire capital cost of the various power developments and transmission systems is annually allocated to the connected municipalities and other wholesale power consumers, according to the relative use made of the lines and equipment. Each municipality assumes responsibility for that portion of property employed in providing and transmitting power for its use, together with such expenses—including the cost of purchased power if any—as are incidental to the provision and delivery of its wholesale power. The entire annual expenses—including appropriations for reserves—incurred by the Commission in the supply of power at wholesale are thus paid out of revenues collected in respect of such power, through the medium of power bills rendered by the Commission. The municipalities are billed at an estimated interim rate each month during the year and credit or debit adjustment is made at the end of the year,\* when the Commission's books are closed and the actual cost payable by each municipality for power received has been determined.

Included in the municipality's remittance to the Commission for the wholesale cost of power—besides such direct expenses as those for operation and maintenance of plant, for administration, and for interest on capital—are sums required to build up reserves for sinking fund, for renewals, and for obsolescence and contingencies. The first-mentioned reserve is for the purpose of liquidating the capital liabilities; consequently, as capital obligations are discharged the plant will progressively be freed from interest expense. The other reserves are, respectively, being created to provide funds for the replacing or rebuilding of plant as it wears out; to enable the undertaking to replace existing equipment with improved equipment as it becomes available through advances in science and invention, and to meet unforeseen expenses which from time to time may arise.

The ultimate source of all revenue to meet costs—whether for the larger operations of the Hydro-Electric Power Commission or for the smaller local operations of the municipalities—is, of course, the consumer. Out of the total revenue collected by each municipal utility from its consumers for service supplied, only an amount sufficient to pay the wholesale cost of power supplied by the Commission as outlined above is remitted to the Commission; the balance of municipal electrical revenue is retained to pay for the expense incurred by the local utility in distributing the electrical energy to its consumers.

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\*The financial year for the Commission ends on October 31. The financial year for the municipal electric utilities, however, ends on December 31, and the municipal accounts are made up to this date, and so recorded in Section X.

The results obtained by the annual adjustments of the Commission's capital investment, operating expenses and fixed charges, as they affect individual municipalities are shown in the tables for the respective systems. For the purpose of financial statement, the various systems are treated as separate units and for each of them similar statements and details are presented. Many of the pages which follow, therefore, simply repeat for each system data similar to those which are presented for the first system dealt with in each division of the report, namely, the Niagara system. In order, therefore, to possess a ready grasp of all the figures presented in this and other similar reports of the Commission, all that is necessary is to have a true understanding of the financial procedure followed in connection with one system and with one municipal "Hydro" utility.

The accounts of the Hydro-Electric Power Commission of Ontario are verified by auditors specially appointed by the Provincial Government. The accounts of the "Hydro" utility of each individual municipality are prepared according to approved and standard practice and are also duly audited.

### **Tabular Data**

The first tabular statement given in Section IX is a general balance sheet exhibiting the assets and liabilities of the undertaking and relates to the properties constructed or otherwise acquired and being operated by the Commission as trustee for the municipalities of the various systems.

The general balance sheet is followed by groups of statements relating in turn to each system of the Commission. These statements, for each system, are similar in character and include:—

**Operating Account** for the year, showing, for the system as a whole, the various items of operating expense and fixed charges entering into the cost of power as defined by the Power Commission Act, and the revenues collected by the Commission from the partner municipalities and other consumers.

**Cost of Power** statement, which shows the apportionment to each municipality or rural power district of the items of cost summarized in the Operating Account, as well as the apportionment of the capital expenditures listed in the balance sheet and the amount of power taken by each municipality. It should be appreciated that the cost of power given in this table is the wholesale cost,—that is, the cost which the Commission receives for the power delivered from the main transformer stations serving the local utility or rural power district. In the case of rural power districts, the costs of power for the respective districts appear also in the "Rural Operating" statement, immediately following, as "Cost of power delivered"; in the case of municipal electrical utilities not directly administered by the Commission, the respective costs of power appear in Statement "B" of Section X as "Power purchased."\*

**Rural Operating** statement, which shows for each rural power district the various items of cost, and the revenues received, in connection with the distribution of electrical energy to consumers.

**Credit or Charge** statement, which shows the adjustments made in order to bring the amounts paid by each municipal electric utility to the actual cost of service to that municipality. These credits and charges are taken up and given effect to in the municipal accounts of "Hydro" utilities before the operating records of each year are closed.

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\*Consult footnote on previous page.

**Reserve for Renewals**, which shows the provisions made for, the expenditures from, and the balances to the credit of, this fund.

**Reserve for Obsolescence and Contingencies**, which gives similar information with respect to this reserve.

**Sinking Fund** statement, which gives the accumulated total of the amounts paid by each municipality and rural power district as part of the cost of power together with its proportionate share of other sinking funds.

**Sinking Fund Reserve**, which summarizes the provisions made with respect to this fund.

All municipal "Hydro" utilities have current expenses to meet similar to the expenses of the Commission and have adopted the same financial procedure with respect to their operations. In other words, concurrently with the creation of funds to liquidate their debt to the Commission and to provide the necessary reserve to protect generating, transforming, and transmission systems, the municipalities are taking similar action with respect to their local "Hydro" utility systems.

The balance sheets, operating reports and statistical data appearing in Section X, under the heading of "Municipal Accounts," relate to the operation of local distribution systems by individual municipalities which have contracted with the Commission for their supply of electrical energy. To this section there is an explanatory introduction to which the reader is specially referred.

To illustrate further the foregoing explanatory comments, there is presented herewith a typical operating statement of an Ontario municipal electrical utility, covering its financial operations, both as a partner in a system of the Hydro-Electric Power Commission, and as administrator of its own local distribution system.

**BROCKVILLE "HYDRO" UTILITY**  
**A Typical Operating Statement for the year 1932**

REVENUE

Collected from Brockville "Hydro" customers for year..... \$125,363.94

EXPENSES

*A.—Incurred by the Hydro-Electric Power Commission on behalf of the municipality of Brockville in connection with the supplying of its electrical energy. These data show—as determined by annual adjustment—what it costs the Commission to supply the municipality with its wholesale power. See "Cost of Power" statement, page 219, for the City of Brockville as follows:*

Cost (proportionate share) of power purchased for Eastern Ontario system, from generating plants not owned by Commission.....	\$15,432.28
Cost (proportionate share) of operation and maintenance expense of Eastern Ontario generating plants, transformer stations and transmission lines together with administrative expenses .....	16,498.69
Interest, including exchange, on Brockville's proportionate share of capital investment in generating plants, transformer stations and transmission lines.....	20,257.64



Renewal reserve (proportionate share) provided in respect of generating plants, transformer stations and transmission lines.....	\$5,430.86
Obsolescence and contingencies reserve (proportionate share) provided in respect of generating plants, transformer stations and transmission lines.....	1,629.59
Sinking Fund (proportionate share) provided in respect of generating plants, transformer stations and transmission lines.....	5,037.50
Cost in excess of revenue from power sold to private companies*.....	7,086.94

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\$71,373.50

*B.—Incurred by the municipality of Brockville through its utility commission in connection with the sale of electrical energy to consumers. Consult the section dealing with the Municipal Accounts:*

Operation, maintenance and administrative expenses...	\$22,388.38
Interest on debenture debt, etc.....	4,037.63
Sinking fund and principal payments on debentures....	8,071.04
Depreciation and other reserves.....	12,770.00

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\$47,267.05

#### TOTAL EXPENSES

Charged against revenue from customers of the Brockville System.....	\$118,640.55
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NET SURPLUS FOR THE YEAR..... \$6,723.39

The municipality of Brockville, situated in the south eastern part of the Province, was connected to the Eastern Ontario system in April, 1915. With the close of the eighteenth year of operation, this utility's total assets are \$594,664.07, liabilities \$95,998.94, and reserves and surplus, \$498,665.13, as shown in the municipalities' balance sheets, in Section X, Statement "A."

By reference to this municipality's balance sheet, it will be noted that the Brockville "Hydro" utility has created a sinking fund equity amounting to \$80,957.62 in the Hydro-Electric Power Commission system.

By reference to Statement "D" in Section X of this report it will be seen that under the low rate schedules prevailing throughout the Province, the rates in force in Brockville have resulted in *average costs*† to the various classes of service as follows: Domestic service (with an average monthly consumption per consumer of 78 kilowatt-hours) 1.9 cents per kilowatt-hour; commercial light service 1.7 cents per kilowatt-hour. The actual *rates in force* are presented in Statement "E" and particulars of street lighting service are given in Statement "C."

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\*This represents the difference between the revenue received from private companies and other power customers operating under flat-rate contracts, and the result obtained by "costing" these loads on exactly the same basis as that used in determining "costs" in respect of municipal contracts, including sinking fund and other reserves.

†If proper differentiation be made by those undertaking research, between the very different entities of rates on the one hand and the derived quantities of average costs or revenues on the other, a great deal of confusion and misrepresentation will be avoided. Consult introduction to Statement "D" of Section X.

## HYDRO-ELECTRIC POWER

## Detailed Statement of Assets

## POWER UNDER

## ASSETS

## Niagara System:

## Generating Plants:

Queenston-Chippawa development.....	\$76,924,617.98
Ontario Power development, including water rights....	22,066,754.12
Toronto Power development, including water rights....	11,141,397.46
Chats Falls Power development.....	5,878,493.70
DeCew Power development and steam plant, including water rights.....	11,795,809.13

## Transmission Lines:

Right-of-way.....	8,733,806.13
Steel tower and wood pole lines.....	26,186,399.48

Transformer Stations.....	35,199,176.42
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\$197,926,454.42

## Distribution Lines:

Rural power districts.....	\$6,224,389.86
Rural lines.....	35,527.44
Local distribution systems.....	414,804.54
	<hr/>
	6,674,721.84

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\$204,601,176.26

Share capital of Hamilton Street Railway Company carried  
at a value of.....

\$3,000,000.00

Cash advances to Hamilton Street Railway to cover capital  
expenditures and for working capital.....

273,212.37

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3,273,212.37

Radial Railways in vicinity of Hamilton in process of liquidation—balance  
expected to be recovered.....

103,000.00

Balances owing under agreements covering  
sales of certain properties, plants and  
equipment:

By City of Hamilton.....\$1,937,500.00  
Accrued interest thereon.....nil

\$1,937,500.00

By City of Brantford, approximately. \$200,000.00  
Accrued interest thereon.....6,712.33

206,712.33

By Canada Coach Lines, Limited.... \$550,000.00  
Accrued interest thereon.....9,116.44

559,116.44

Shares (1,000) of First Preferred stock of Canada  
Coach Lines, Limited—at par.....

100,000.00

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2,803,328.77

## Thunder Bay System:

Nipigon generating plants.....	\$15,698,917.39
Transmission lines.....	1,905,037.77
Transformer stations.....	855,648.50

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\$18,459,603.66

## Distribution lines:

Rural power districts.....	21,134.85
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18,480,738.51

Carried forward.....\$229,261,455.91

## COMMISSION OF ONTARIO

## and Liabilities, October 31, 1932

## TAKINGS

## LIABILITIES

To Province of Ontario:

Cash advances for Niagara and other systems.....	\$204,488,631.44	
Less: Repayment under provisions of Power Commission Act	14,853,440.35	
		\$189,635,191.09

Grant funds in the hands of the Commission to apply against rural power districts in course of construction or extension.....		122,799.81
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Amount received from the Province for the purpose of making loans under provisions of the Rural Power District Loans Act.....	\$65,000.00	
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Note: Loans made to October 31, 1932, \$63,793.21.

Less: Principal instalments on such loans collected and repaid to the Province.....	6,431.07	
		58,568.93

Debentures issued by the Commission and guaranteed by the Province of Ontario:

Four per cent debentures, due 1957, issued in purchase of Ontario Power Company of Niagara Falls.....	\$8,000,000.00	
Interest accrued thereon.....	80,000.00	
		\$8,080,000.00

Six per cent debentures, due 1941, issued for the purpose of retiring the 1921 issue of the Ontario Power Company of Niagara Falls.....	\$3,200,000.00	
Interest accrued thereon.....	67,856.16	
		3,267,856.16

Six per cent debentures, due 1940, issued in purchase of the Toronto Power Company, Limited.....	\$413,200.00	
Interest accrued thereon.....	10,330.00	
		423,530.00

Six per cent debentures, due 1940, issued in purchase of certain electrical power equipment of the Toronto and York Radial Railway.....	\$205,800.00	
Interest accrued thereon.....	5,145.00	
		210,945.00

Five per cent debentures, due 1939, issued for the purpose of retiring the 1924 issue of the Toronto Power Company Limited.....	\$4,000,000.00	
Interest accrued thereon.....	75,000.00	
		4,075,000.00

Four per cent debentures, due 1958, issued in purchase of distribution lines of Essex County.....	\$200,000.00	
Interest accrued thereon.....	3,333.34	
		203,333.34

Four per cent debentures, due 1958, issued in purchase of distribution lines in vicinity of Thorold.....	\$100,000.00	
Interest accrued thereon.....	1,666.67	
		101,666.67

\$16,362,331.17

Carried forward.....\$189,816,559.83



**HYDRO-ELECTRIC POWER**  
**Detailed Statement of Assets**  
**POWER UNDER**

ASSETS		
Brought forward.....		\$229,261,455.91
Georgian Bay System:		
Generating plants.....	\$3,762,339.72	
Transmission lines.....	2,596,548.47	
Transformer stations.....	1,152,931.93	
	<u>\$7,511,820.12</u>	
Distribution lines:		
Rural power districts.....	\$731,151.52	
Rural lines.....	2,807.43	
Local distribution systems.....	83,246.71	
	<u>817,205.66</u>	
		8,329,025.78
Eastern Ontario System:		
Generating plants, including water rights.....	\$11,299,663.07	
Surveys and engineering <i>re</i> power sites:		
On St. Lawrence river.....	\$734,873.31	
On Ottawa river.....	94,135.20	
	<u>829,008.51</u>	
Properties purchased for power sites.....	52,533.33	
Transmission lines.....	4,089,166.32	
Transformer stations.....	2,583,734.84	
Rural power districts.....	\$1,579,231.22	
Local distribution systems:		
Electric.....	459,628.89	
Gas.....	26,234.12	
Rural lines.....	89,063.73	
Pulp Mill.....	52,559.93	
	<u>2,206,717.89</u>	
		21,060,823.96
Sudbury district:		
Properties, buildings, plant, equipment and water rights on		
Wanapitei river.....	\$2,506,410.27	
Transmission lines.....	141,771.54	
Transformer stations.....	41,662.06	
	<u>\$2,689,843.87</u>	
Local distribution systems.....	6,630.43	
	<u>2,696,474.30</u>	
Bonds of Ontario Power Service Corporation Limited bearing		
interest at 5½% per annum, maturing in 1950—par value		
\$6,000,000—cost.....		5,400,000.00
payable in debentures of the Commission guaranteed by the		
Province of Ontario, maturing in 1952 and bearing interest at		
the yearly rates of 3½% in first five years, 4% in next five		
years and 5% in last ten years.		
Note: The Commission has undertaken to purchase at the		
same price and on the same terms, from the holders		
thereof, further similar bonds of Ontario Power Service		
Corporation Limited to a maximum amount of		
\$14,000,000 par value, or such portion thereof as may be		
offered at a price of \$90.00 of Commission's Debentures		
for \$100.00 of Power Corporation's Bonds.		
Carried forward.....		\$266,747,779.95

**COMMISSION OF ONTARIO**  
**and Liabilities, October 31, 1932**

*TAKINGS—Continued*

		LIABILITIES	
Brought forward.....		\$16,362,331.17	\$189,816,559.83
Debentures issued by the Commission and guaranteed by the Province of Ontario— <i>Continued</i> :			
Four and three-quarter per cent debentures, due 1970, issued in part purchase of Undertakings and Companies from Dominion Power and Transmission Company, Limited, as at January 1, 1930.....		\$13,000,000.00	
Interest accrued thereon.....		206,397.00	
			13,206,397.00
Five per cent debentures, due 1935, issued in part purchase of Undertakings and Companies from Dominion Power and Transmission Company, Limited, as at January 1, 1930.....		\$8,000,000.00	
Interest accrued thereon.....		133,698.00	
			8,133,698.00
Twenty-year debentures maturing in 1952 and bearing interest at the rates of 3½% in first five years, 4% in next five years, 5% in last ten years.....			37,702,426.17
issued in purchase of \$6,000,000 par value of 5½% bonds of Ontario Power Service Corporation Limited maturing in 1950.			5,400,000.00
Note: The Commission has undertaken to issue, and the Province of Ontario to guarantee, further similar debentures to a maximum amount of \$12,600,000 in purchase of \$14,000,000 par value of bonds of Ontario Power Service Corporation Limited or such portion thereof as may be offered at a price of \$90.00 of Commission's Debentures for \$100.00 of the Power Corporation's Bonds.			
Bonds and debenture stock assumed by the Commission and guaranteed by the Province of Ontario:			
First mortgage 5% gold bonds, due 1943, of the Ontario Power Company of Niagara Falls:			
Amount assumed at date of purchase of Company by Commission, August 1, 1917.....		\$9,834,000.00	
Less: Retired by the Commission.....		1,866,000.00	
		\$7,968,000.00	
Interest accrued thereon.....		99,600.00	
			\$8,067,600.00
First mortgage 5% gold bonds, due 1945, of the Ontario Transmission Company, Limited:			
Amount assumed at date of purchase of Company by Commission, August 1, 1917....		\$1,772,000.00	
Less: Retired by the Commission.....		468,000.00	
		\$1,304,000.00	
Interest thereon payable November 1, 1932		32,600.00	
			1,336,600.00
Guaranteed 4½% debenture stock, due 1941, of the Toronto Power Company, Limited:			
Amount assumed at date of purchase of Company by Commission, December 1, 1920..		\$13,558,917.81	
Less: Retired by the Commission.....		7,474,547.84	
		\$6,084,369.97	
Interest thereon payable November 1, 1932		136,898.32	
			6,221,268.29
			\$15,625,468.29
Carried forward.....			\$232,918,986.00

## HYDRO-ELECTRIC POWER

## Detailed Statement of Assets

ASSETS		POWER UNDER
Brought forward . . . . .		\$266,747,779.95
Abitibi—Sudbury line:		
Transmission line and equipment . . . . .	\$2,189,620.17	
Transformer station . . . . .	2,290.63	
		2,191,910.80
Patricia District:		
Ear Falls generating plant . . . . .		483,181.39
Manitoulin Island:		
Transformer station . . . . .	\$108.35	
Rural power district . . . . .	15,011.26	
		15,119.61
Bonnechere River Storage:		
Round Lake dam . . . . .		51,629.23
Service Buildings and Equipment:		
Service buildings and equipment, Toronto . . . . .	\$504,779.65	
Terminal building, Hamilton . . . . .	750,000.00	
Equipment of storehouse and garage, Hamilton . . . . .	3,666.40	
Pole yard and equipment, Cobourg . . . . .	21,816.27	
		1,280,262.32
Office Buildings:		
On University Avenue, Toronto . . . . .	616,597.12	
On corner Elm Street and Centre Avenue, Toronto . . . . .	160,821.95	
		777,419.07
Office Furniture and Equipment:		
At Toronto office . . . . .	\$64,120.10	
At Hamilton office . . . . .	1,500.00	
At Electrical Inspection office . . . . .	9,489.10	
		75,109.20
Automobiles and Trucks . . . . .		3,918.96
Inventories:		
Construction and maintenance, tools and equipment . . . . .	\$817,352.38	
Construction material and sundry supplies . . . . .	976,609.89	
Maintenance material and supplies . . . . .	626,136.29	
Stationery and office supplies . . . . .	25,811.53	
		2,445,910.09
Sinking Funds:		
Employed to make repayments to the Province of Ontario under the terms of the Power Commission Act . . . . .	\$14,853,440.35	
Employed in retirement of bonds issued or assumed by the Commission and guaran- teed by the Province of Ontario . . . . .	7,220,574.95	
Invested in securities of the Province of Ontario, which stand deposited with Provincial Treasurer—par value \$2,101,000.00 . . . . .	\$2,086,904.77	
Interest accrued thereon . . . . .	27,442.47	
		2,114,347.24
Carried forward . . . . .		\$276,186,587.86



## COMMISSION OF ONTARIO

and Liabilities, October 31, 1932

## TAKINGS—Continued

	LIABILITIES	
Brought forward.....	\$15,625,468.29	\$232,918,986.00
Bonds and debenture stock assumed by the Commission and guaranteed by the Province of Ontario—Continued.		
First mortgage 5% gold bonds, due 1933, of the Electrical Development Company of Ontario, Limited:		
Amount assumed at date of purchase of Com- pany by Commission, December 1, 1920.....	\$4,335,000.00	
Less: Retired by the Commission.....	1,063,500.00	
	\$3,271,500.00	
Interest accrued thereon.....	27,262.50	
	3,298,762.50	
		18,924,230.79
Other debentures assumed:		
In respect of purchase of lines at Streetsville:		
Amount assumed at date of purchase.....	\$6,000.00	
Less: Retired by the Commission.....	5,104.77	
	\$895.23	
Interest accrued thereon.....	22.38	
	\$917.61	
In respect of purchase of original Muskoka Power Development:		
Amount assumed at date of purchase.....	\$50,595.93	
Less: Retired by the Commission.....	31,355.65	
	\$19,240.28	
Interest accrued thereon.....	734.30	
	19,974.58	
In respect of purchase of sundry rural lines:		
Amount assumed at dates of purchase.....	\$69,289.85	
Less: Retired by the Commission.....	30,414.37	
	\$38,875.48	
Interest accrued thereon.....	1,010.58	
	39,886.06	
		60,778.25
Outstanding share capital of the Electrical Development Com- pany of Ontario, Limited.....		
	\$600.00	
Galetta Electric Power and Milling Company, Limited.....	580.00	
		1,180.00
Accounts payable.....	\$1,421,978.61	
Interest coupons due but not presented for payment.....	20,933.12	
		1,442,911.73
Bank of Montreal:		
Demand loan (secured).....		4,500,000.00
Insurance Department:		
Outstanding claims and awards.....	\$814,391.86	
Surplus.....	91,890.75	
		906,282.61
Reserve for Staff Pensions.....		2,947,736.64
Carried forward.....		\$261,702,106.02

## HYDRO-ELECTRIC POWER

## Detailed Statement of Assets

## POWER UNDER

## ASSETS

Brought forward.....		\$276,186,587.86	
Insurance Funds:			
(a) Invested in securities of the Dominion of Canada—par value, \$800,000.00.....	\$804,740.88		
(b) Invested in securities of the Province of Ontario—par value, \$28,000.00.....	28,785.32		
Interest accrued thereon.....	617.78		
	<hr/>	\$834,143.98	
(c) On deposit with Workmen's Compensation Board.....	51,222.94		885,366.92
			<hr/>
Staff Pension Funds:			
(a) Invested in securities of the Province of Ontario—par value, \$2,855,000.00.....	\$2,811,152.78		
(b) Invested in securities of the Dominion of Canada—par value, \$55,000.00.....	53,252.56		
Interest accrued thereon.....	32,163.95		
	<hr/>		2,896,569.29
Reserve Funds:			
(a) Invested in securities of the Dominion of Canada—par value, \$3,791,850.00.....	\$3,777,566.69		
(b) Invested in securities of the Canadian National Railway, guaranteed by the Dominion of Canada—par value, \$1,000,000.00.....	1,018,949.14		
(c) Invested in securities of the Province of Ontario—par value, \$29,618,500.00.....	29,200,533.85		
(d) Invested in securities of the Commission guaranteed by the Province of Ontario—par value, \$1,200,000.00.....	1,185,876.32		
(e) Invested in securities of the Temiskaming and Northern Ontario Railway, guaranteed by the Province of Ontario—par value, \$240,000.00.....	206,487.32		
(f) Invested in debentures of Ontario municipalities, which debentures were received from certain municipalities upon the sale thereto of their local distribution systems—par value, \$1,499,342.70.....	1,379,810.32		
Interest accrued thereon.....	453,851.28		
	<hr/>		37,223,074.92
Other Bonds and Shares taken over with the plant assets of power companies acquired—carried at a value of \$24,915.00.....			
Interest accrued thereon.....	\$24,915.00		
	332.51		
	<hr/>		25,247.51
Cash:			
In banks.....	\$863,126.18		
In banks to pay bond interest due November 1, 1932, and interest coupons overdue but not presented.....	190,431.44		
Sinking funds on deposit with trustees for bondholders.....	419,600.07		
In hands of employees as advances on account of expenses..	87,486.22		
	<hr/>	\$1,560,643.91	
Less: Funds of Guelph Radial Railway shown elsewhere in this balance sheet.....	16,362.49		1,544,281.42
	<hr/>		<hr/>
Carried forward.....		\$318,761,127.92	

## COMMISSION OF ONTARIO

## and Liabilities, October 31, 1932

## TAKINGS—Continued

## LIABILITIES

Brought forward.....	\$261,702,106.02	
Balances due to municipalities in respect of amounts paid by them to October 31, 1932, in excess of the cost of power supplied to them as provided to be paid under the Power Commission Act:		
Niagara system.....	\$1,139,553.57	
Georgian Bay system.....	42,290.97	
Eastern Ontario system.....	163,626.13	
Thunder Bay system.....	892.51	
	<hr/>	1,346,363.18
Reserves for Sinking Fund:		
Niagara system.....	\$21,808,954.04	
Niagara rural lines.....	12,890.98	
Thunder Bay system.....	887,461.03	
Georgian Bay system.....	816,185.21	
Georgian Bay rural lines.....	765.26	
Eastern Ontario system.....	857,536.86	
Bonnechere storage system.....	1,733.81	
	<hr/>	\$24,385,527.19
Service buildings and equipment.....	110,305.28	
Office buildings.....	143,295.99	
	<hr/>	24,639,128.46
Reserves for Renewals:		
Niagara system.....	\$16,629,892.53	
Niagara rural lines.....	5,282.76	
Thunder Bay system.....	1,140,522.40	
Georgian Bay system.....	1,298,058.48	
Georgian Bay rural lines.....	443.27	
Eastern Ontario system.....	3,056,319.03	
Sudbury district.....	54,907.66	
Patricia district.....	8,160.02	
	<hr/>	\$22,193,586.15
Service buildings and equipment.....	302,713.12	
Office buildings.....	108,399.43	
	<hr/>	22,604,698.70
Reserves for Obsolescence and Contingencies:		
Niagara system.....	\$12,440,735.02	
Niagara rural lines.....	2,588.80	
Thunder Bay system.....	711,241.06	
Georgian Bay system.....	367,197.47	
Georgian Bay rural lines.....	186.82	
Eastern Ontario system.....	1,314,734.73	
Sudbury district.....	101,715.99	
	<hr/>	14,938,399.89
Balance at credit of interest account.....		17,643.13
Contingent Liabilities:		
In respect of contracts entered into for power undertakings in course of construction... \$506,232.47		
Carried forward.....	<hr/>	\$325,248,339.38



## HYDRO-ELECTRIC POWER

## Detailed Statement of Assets

## POWER UNDER

## ASSETS

Brought forward .....		\$318,761,127.92
Accounts receivable:		
Due by municipalities and sundry customers in respect of construction work, supply sales, etc. ....	\$412,540.04	
Less: Reserve for doubtful accounts. ....	22,093.86	
		\$390,446.18
Due by municipalities and sundry customers in respect of power accounts. ....	\$4,477,537.93	
Less: Reserve for doubtful accounts. ....	538,171.54	
		3,939,366.39
Sinking fund and interest accounts owing in respect of rural lines. ....		394.80
Claim against Dominion Government in respect of income taxes paid for the thirteen months ending December 31, 1921. ....		72,334.46
		4,402,541.83
Balances due by municipalities in respect of the costs of power supplied to them, as provided to be paid under the Power Commission Act:		
Niagara system. ....	\$276,189.54	
Georgian Bay system. ....	94,504.30	
Eastern Ontario system. ....	72,277.37	
Thunder Bay system. ....	161,816.38	
		604,787.59
Owing by Province of Ontario:		
In respect of power purchased and delivered over the Abitibi-Sudbury line in the period of thirteen months up to October 31, 1932. ....		212,394.11
Rural loans:		
Loans made to persons under provisions of the Rural Power District Loans Act in respect of installations of electrical equipment. ....	\$63,793.21	
Instalments of principal received. ....	7,070.69	
	\$56,722.52	
Interest instalments due. ....	626.82	
		57,349.34
Work in progress:		
Expenditure on account of various systems chargeable upon completion to:		
Capital construction. ....	\$10,735.76	
Operating and maintenance expenses. ....	25,037.99	
		35,773.75
Insurance unexpired. ....		30,589.87
Discount on debentures issued by the Commission, less amounts written off:		
On debenture issue of \$3,200,000 maturing 1941. ....	\$67,650.81	
On debenture issue of \$4,000,000 maturing 1939. ....	41,018.40	
		108,669.21
Total Power Undertakings. ....		\$324,213,233.62

COMMISSION OF ONTARIO  
and Liabilities, October 31, 1932

TAKINGS—Continued

	LIABILITIES
Brought forward .....	\$325,248,339.38

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Total Power Undertakings.....	\$325,248,339.38
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## HYDRO-ELECTRIC POWER

## Detailed Statement of Assets

## RADIAL RAILWAY

ASSETS		
Brought forward.....		\$324,213,233.62
Guelph Radial Railway:		
Road and equipment.....	\$444,205.06	
Materials and supplies.....	5,802.38	
Reserve funds:		
(a) Invested in securities of the Province of Ontario—par value, \$25,000.00	\$22,499.49	
(b) Invested in securities of the Dominion of Canada—par value, \$25,000.00	24,759.72	
Interest accrued thereon.....	1,056.44	
		48,315.63
Cash:		
In the general bank account of the Commission at Toronto.....	\$16,362.49	
In bank at Guelph.....	1,210.02	
In hands of employees as advances on account of expenses.....	1,500.00	
		19,072.51
Accounts receivable:	\$1,231.85	
Less: Reserve for doubtful accounts.....	250.00	
		981.85
Insurance and expenses prepaid.....		1,174.77
Due by the City of Guelph:		
Operating deficit for the year ending October 31, 1932—as per Operating Account.....	\$36,885.41	
Less: Paid on account, by the City.....	35,000.00	
		1,885.41
		521,437.63
Sandwich, Windsor & Amherstburg Railway Company:		
Undertaking of the Sandwich, Windsor and Amherstburg Railway Company to pay the Hydro Radial Debentures issued by the Commission, and guaranteed by the Province of Ontario, in purchase of, and for the extension and betterment of, the Sandwich, Windsor and Amherstburg Railway—as per agreement covering the transfer at July 31st, 1931, of the Railway, by the Commission, to the Company.....	\$5,816,205.00	
Interest accrued on such debentures.....	61,839.63	
NOTE.—The Hydro Radial Debentures above mentioned (and which are also listed opposite as liabilities of the Commission) are—under Statute of 1930 and under Trust Deed dated July 31st, 1931, in favour of the Guaranty Trust Company, as Trustee—secured by:		
(a) A charge upon the properties of the Railway.		
(b) Debentures of the eleven municipalities which own the Railway Company, to the aggregate amount of \$5,816,205.00.		5,878,044.63
Carried forward.....		\$330,612,715.88



## COMMISSION OF ONTARIO

and Liabilities, October 31, 1932

## UNDERTAKINGS

## LIABILITIES

Brought forward.....			\$325,248,339.38
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In respect of the Guelph Radial Railway:

City of Guelph—purchase price of the Railway payable thereto, in half yearly instalments according to purchase agreement.....	\$150,000.00		
Less: Twenty-three instalments thereon..	73,505.41	\$76,494.59	

Debentures issued by the Commission and guaranteed by the Province of Ontario:

Five per cent Debentures due 1970 issued to retire \$300,000.00 of Debentures which matured in 1931 and which had been issued for the purpose of making extensions and betterments to the Railway.		300,000.00	
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Instalments of principal and interest payable to the City of Guelph, May 1 and November 1, 1932, under the terms of the purchase agreement.....		11,700.00	
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Accounts payable and accrued charges.....	\$1,258.12		
Provision for unredeemed tickets.....	1,300.00		
		2,558.12	

Premium on sale of debentures—less portion written off.....		21,444.61	
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Reserve—created by payment of instalments on the purchase price out of the revenue of the road and assessments against the City of Guelph.....		73,505.41	
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Reserve for sinking fund.....		4,801.68	
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Reserve for renewal of road and equipment.....		30,933.22	
			521,437.63

In respect of the Sandwich, Windsor &amp; Amherstburg Railway Company:

Debentures issued under provisions of the Hydro-Electric Railway Act, by the Commission and guaranteed by the Province of Ontario in purchase of the Railway and for the purpose of making extensions and betterments thereto.

Four and one-half per cent debentures, due April 1, 1960	\$2,100,000.00
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Six per cent debentures, due July 1, 1961.....	900,000.00
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Five per cent debentures, due September 1, 1943.....	966,205.00
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Five per cent debentures, due July 1, 1945.....	750,000.00
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Five per cent debentures, due September 1, 1945.....	100,000.00
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Five per cent debentures, due July 15, 1946.....	1,000,000.00
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	\$5,816,205.00
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Interest accrued thereon.....	61,839.63	
		5,878,044.63

Carried forward.....		\$331,647,821.64
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**HYDRO-ELECTRIC POWER****Detailed Statement of Assets***RADIAL RAILWAY*

## ASSETS

Brought forward .....	\$330,612,715.88
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## Toronto and York Radial Railway:

City of Toronto—debentures held as collateral security for the repayment of the Hydro Radial debentures issued in purchase of the Toronto and York Radial Railway—as per agreement covering the transfer (in January, 1927) of the railway to the City of Toronto.....	\$2,375,000.00	
City of Toronto—interest accrued on \$2,375,000 debentures issued by the Commission in purchase of the Toronto and York Radial Railway.....	59,375.00	2,434,375.00

## Port Credit to St. Catharines Radial Railway:

Purchase of right-of-way and carrying charges (taxes, less rental revenue) down to October 31, 1932.....	\$73,095.16	
Construction materials purchased, less amount realized on sale thereof.....	117,510.09	
Surveying, engineering, administrative expenses and interest	371,211.96	561,817.21

## Toronto to Port Credit Radial Railway:

Purchase of right-of-way and carrying charges (taxes, less rental revenue) down to October 31, 1932—less amounts realized on properties sold.....	\$474,016.21	
Surveying, engineering, administrative expenses and interest	499,272.34	973,288.55
		<u>\$334,582,196.64</u>

**COMMISSION OF ONTARIO****and Liabilities, October 31, 1932***UNDERTAKINGS—Continued*

## LIABILITIES

Brought forward . . . . .	\$331,647,821.64
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## In respect of Toronto and York Radial Railway:

Debentures issued by the Commission and guaranteed by the  
Province of Ontario:

Six per cent debentures, due 1940, issued in purchase of the Metropolitan, Scarboro and Mimico Radial Railway divisions . . . . .	\$2,375,000.00
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Interest accrued thereon . . . . .	59,375.00	
	<hr/>	2,434,375.00

## In respect of the Port Credit to St. Catharines Radial Railway:

Bank of Montreal—advances (secured by hypothecation of \$1,200,000 Hydro Radial debentures, being part of an issue of \$11,360,363 guaranteed by the Province of Ontario) . . . . .	500,000.00
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<hr/> <hr/>	\$334,582,196.64
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# NIAGARA

## Operating Account for the

### COSTS OF OPERATION AS PROVIDED FOR UNDER THE TERMS OF THE POWER COMMISSION ACT

Power purchased.....		\$5,513,435.12
Costs of operation and maintenance, including the proportion of administrative expenses chargeable to the operation of this system:		
Generation and transmission equipment.....	\$4,346,851.39	
Rural power districts.....	546,720.01	
		4,893,571.40
Interest (including exchange) on capital investment in:		
Generation and transmission equipment.....	\$10,400,734.38	
Rural power districts.....	290,757.17	
		10,691,491.55
Provision for renewals of:		
Generation and transmission equipment.....	\$1,342,776.20	
Rural power districts.....	236,925.30	
		1,579,701.50
Provision for obsolescence and contingencies in respect of:		
Rural power districts.....	\$118,462.65	
		118,462.65
Provision for sinking funds for repayment of the cash advances by the province of Ontario to the Commission and for the retirement of the bonds issued by and assumed by the Commission:		
By charges included in the cost of power delivered to munici- palities and rural power districts.....	\$1,411,161.64	
By charges against contracts with private companies which purchase power and local distribution systems.....	503,451.13	
By charges included in the cost of distribution of power within rural power districts.....	63,315.62	
		1,977,928.39
Total costs of operation.....		\$24,774,590.61
Deduct:		
Cost to the Commission (including provisions for sinking fund \$503,451.13 and renewals \$322,065.22) of power delivered to private companies and customers under flat rate contracts, in excess of the revenue received from them— which excess has been charged against the Contingency Reserve of the system.....	\$1,949,367.83	
Amount appropriated from the Contingency Reserve of the system and applied proportionately to each municipality in reduction of the costs of operation.....	595,280.80	
		2,544,648.63
		<u>\$22,229,941.98</u>



## NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each by the Commission; the amount appropriated from the contingency cost; the amount received by the Commission from each charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse- power supplied in year after correction for power factor	Cost of power pur- chased	Share of operating	
	To Jan. 1 1932	To Oct. 31 1932				Operating, main- tenance and adminis- trative expenses	Interest (including exchange)
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Acton.....	33.00	33.00	218,283.01	748.6	4,824.64	5,420.36	11,175.47
Agincourt.....	40.00	40.00	47,557.28	141.2	910.02	1,274.71	2,427.34
Ailsa Craig.....	48.00	48.00	51,866.46	144.5	931.29	2,042.56	2,608.43
Alvinston.....	90.00	90.00	62,620.93	82.5	531.70	2,927.95	3,066.92
Amherstburg.....	40.00	40.00	196,729.63	646.3	4,165.33	5,502.00	10,060.81
Ancaster twp....	30.00	30.00	64,525.88	249.5	1,608.00	1,672.38	3,342.93
Arkona.....	75.00	75.00	34,010.47	56.2	362.20	1,726.88	1,653.71
Aylmer.....	35.00	35.00	136,202.49	468.3	3,018.14	4,014.74	6,874.62
Ayr.....	35.00	35.00	47,905.54	176.0	1,134.30	1,390.26	2,458.16
Baden.....	32.00	32.00	75,864.17	274.3	1,767.83	2,117.76	3,842.07
Beachville.....	33.00	33.00	114,370.27	419.2	2,701.70	3,243.84	5,811.39
Belle River.....	38.00	38.00	37,471.07	125.2	806.90	1,435.68	1,916.67
Blenheim.....	39.00	39.00	114,585.18	368.6	2,375.58	5,505.15	5,819.19
Blyth.....	58.00	58.00	39,736.40	90.5	583.26	1,592.19	1,990.89
Bolton.....	44.00	46.00	40,699.48	112.8	726.98	1,318.88	2,024.15
Bothwell.....	44.00	45.00	34,204.51	97.4	627.73	2,097.89	1,694.07
Brampton.....	29.00	29.00	499,814.97	2,034.9	13,114.70	15,081.96	25,846.87
Brantford.....	27.00	27.00	2,597,526.70	10,817.8	69,719.48	57,203.73	133,912.36
Brantford twp..	27.00	29.00	135,569.50	562.5	3,625.25	4,921.69	7,072.82
Bridgeport.....	34.00	36.00	42,030.05	146.3	942.89	1,244.84	2,180.27
Brigden.....	70.00	68.00	40,206.32	80.0	515.59	1,640.95	2,011.55
Brussels.....	52.00	54.00	51,210.75	125.6	809.48	1,967.81	2,571.19
Burford.....	35.00	35.00	39,138.11	140.4	904.86	1,417.84	2,005.19
Burgessville....	43.00	44.00	20,920.45	56.1	361.56	1,539.43	1,034.42
Caledonia.....	29.00	29.00	71,981.09	281.0	1,811.01	1,941.31	3,715.29
Campbellville...	60.00	62.00	8,396.05	26.9	173.37	839.62	430.84
Cayuga.....	50.00	50.00	35,548.41	99.4	640.62	1,462.36	1,801.28
Chatham.....	30.00	30.00	1,039,069.76	4,014.0	25,869.77	27,949.72	53,309.51
Chippawa.....	25.00	25.00	45,568.33	224.5	1,446.88	1,131.57	2,390.91
Clifford.....	56.00	59.00	29,179.82	61.0	393.14	1,170.55	1,459.35
Clinton.....	38.00	38.00	133,547.77	427.1	2,752.61	4,547.07	6,745.75
Comber.....	45.00	50.00	49,742.17	132.4	853.30	2,059.39	2,484.17
Cottam.....	44.00	44.00	21,870.46	62.4	402.16	828.69	1,115.54
Courtright.....	72.00	72.00	22,408.01	39.6	255.22	1,091.02	1,110.83
Dashwood.....	50.00	50.00	26,944.25	66.2	426.65	944.77	1,346.88
Delaware.....	36.00	38.00	10,000.45	37.2	239.75	506.46	514.37
Dorchester.....	38.00	38.00	21,423.38	72.7	468.54	1,045.23	1,090.87
Drayton.....	55.00	58.00	43,833.39	93.4	601.95	1,790.11	2,186.77
Dresden.....	45.00	45.00	95,969.91	277.1	1,785.88	3,606.00	4,840.28
Drumbo.....	45.00	45.00	21,657.26	67.2	433.10	794.75	1,098.43



## SYSTEM

## N.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to it  
 reserve of the system and proportionately applied in reduction of such  
 Municipality; and the amount remaining to be credited or  
 supplied to it in the year ending October 31, 1932

costs and fixed charges		Total cost of power for year	Amount appropriat- ed from contingency reserve and pro- portionately applied in reduc- tion of such cost	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,898.50	2,153.38	25,472.35	748.60	24,723.75	24,702.95	.....	20.80
424.83	473.78	5,510.68	141.20	5,369.48	5,649.96	280.48	.....
510.42	517.83	6,610.53	144.50	6,466.03	6,992.20	526.17	.....
782.76	643.75	7,953.08	82.50	7,870.58	7,835.66	.....	34.92
1,709.84	1,946.02	23,384.00	646.30	22,737.70	27,280.27	4,542.57	.....
511.64	630.56	7,765.51	249.50	7,516.01	7,483.75	.....	32.26
391.58	339.09	4,473.46	56.20	4,417.26	4,437.78	20.52	.....
1,148.99	1,323.54	16,380.03	468.30	15,911.73	17,403.20	1,491.47	.....
393.78	469.65	5,846.15	176.00	5,670.15	6,518.05	847.90	.....
627.84	743.15	9,098.65	274.30	8,824.35	9,334.78	510.43	.....
930.88	1,114.96	13,802.77	419.20	13,383.57	14,693.94	1,310.37	.....
320.91	369.73	4,849.89	125.20	4,724.69	5,026.70	302.01	.....
1,023.26	1,134.85	15,858.03	368.60	15,489.43	15,206.43	.....	283.00
426.44	400.33	4,993.11	90.50	4,902.61	5,541.62	639.01	.....
398.73	405.65	4,874.39	112.80	4,761.59	5,419.52	657.93	.....
329.28	341.22	5,090.19	97.40	4,992.79	4,367.07	.....	625.72
3,740.11	4,868.80	62,652.44	2,034.90	60,617.54	64,646.95	4,029.41	.....
19,012.00	25,222.19	305,069.76	10,817.80	294,251.96	288,445.50	.....	5,806.46
996.15	1,316.80	17,932.71	562.50	17,370.21	17,102.94	.....	267.27
360.96	414.68	5,143.64	146.30	4,997.34	5,468.52	471.18	.....
456.99	412.20	5,037.28	80.00	4,957.28	5,718.49	761.21	.....
532.76	514.13	6,395.37	125.60	6,269.77	7,103.44	833.67	.....
329.96	385.76	5,043.61	140.40	4,903.21	5,207.22	304.01	.....
204.11	205.03	3,344.55	56.10	3,288.45	2,600.53	.....	687.92
566.64	703.43	8,737.68	281.00	8,456.68	8,689.99	233.31	.....
76.33	83.24	1,603.40	26.90	1,576.50	1,720.49	143.99	.....
351.43	354.83	4,610.52	99.40	4,511.12	5,225.18	714.06	.....
8,013.70	10,161.49	125,304.19	4,014.00	121,290.19	128,474.17	7,183.98	.....
286.17	436.42	5,691.95	224.50	5,467.45	5,973.64	506.19	.....
323.91	295.45	3,642.40	61.00	3,581.40	3,768.79	187.39	.....
1,198.45	1,317.84	16,561.72	427.10	16,134.62	16,706.08	571.46	.....
496.36	498.06	6,391.28	132.40	6,258.88	6,864.89	606.01	.....
208.21	218.16	2,772.76	62.40	2,710.36	2,899.07	188.71	.....
260.96	228.44	2,946.47	39.60	2,906.87	2,999.91	93.04	.....
281.85	270.93	3,271.08	66.20	3,204.88	3,501.03	296.15	.....
81.07	97.97	1,439.62	37.20	1,402.42	1,476.68	74.26	.....
186.48	211.16	3,002.28	72.70	2,929.58	2,921.96	.....	7.62
484.19	444.11	5,507.13	93.40	5,413.73	5,363.74	.....	49.99
916.89	956.78	12,105.83	277.10	11,828.73	12,468.10	639.37	.....
200.84	214.77	2,741.89	67.20	2,674.69	3,152.42	477.73	.....

## NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each by the Commission; the amount appropriated from the contingency cost; the amount received by the Commission from each charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1932	To Oct. 31 1932				Operating, main-tenance and administrative expenses	Interest (including exchange)
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Dublin.....	58.00	58.00	18,135.97	39.8	256.51	753.57	899.19
Dundas.....	25.00	25.00	331,456.57	1,427.7	9,201.36	6,878.79	17,081.75
Dunnville.....	35.00	35.00	209,561.39	760.8	4,903.27	6,290.44	10,782.34
Dutton.....	38.00	38.00	61,532.05	220.9	1,423.68	2,292.00	3,109.77
East Windsor...	31.00	31.00	722,450.70	2,617.8	16,871.42	17,545.84	37,054.38
Elmira.....	31.00	34.00	206,177.88	699.0	4,504.97	5,216.68	10,422.86
Elora.....	35.00	35.00	112,866.22	376.1	2,423.92	3,301.52	5,739.17
Embro.....	52.00	50.00	31,410.86	89.4	576.17	1,243.85	1,561.19
Erieau.....	56.00	56.00	30,330.76	70.3	453.07	1,599.75	1,527.82
Erie Beach.....	70.00	70.00	6,669.28	13.6	87.65	397.03	333.32
Essex.....	35.00	35.00	103,422.69	349.1	2,249.91	2,966.56	5,291.79
Etobicoke twp..	29.00	29.00	703,194.15	2,894.6	18,655.37	15,304.43	36,395.38
Exeter.....	38.00	38.00	129,164.59	404.8	2,608.89	3,887.71	6,445.98
Fergus.....	35.00	35.00	208,896.30	682.6	4,399.28	5,472.38	10,683.86
Fonthill.....	34.00	34.00	27,726.94	110.4	711.52	1,347.54	1,445.98
Forest.....	48.00	48.00	121,159.81	313.7	2,021.76	5,450.90	5,955.12
Galt.....	26.00	27.00	1,397,164.80	5,873.2	37,852.10	33,294.26	72,118.91
Georgetown....	35.00	35.00	308,355.57	976.1	6,290.85	7,611.78	15,655.78
Glencoe.....	58.00	58.00	75,771.47	163.6	1,054.38	4,286.66	3,782.70
Goderich.....	42.00	42.00	363,931.08	1,035.4	6,673.03	11,722.79	18,255.80
Granton.....	48.00	50.00	22,827.69	59.2	381.54	1,200.26	1,140.27
Guelph.....	27.00	27.00	1,759,867.56	7,359.4	47,430.49	42,293.22	90,948.10
Hagersville....	31.00	31.00	208,828.08	760.6	4,901.98	4,886.08	10,645.26
Hamilton.....	23.50	23.50	18,418,931.47	81,794.4	527,155.58	332,830.02	961,030.73
Harriston.....	42.00	44.00	101,610.41	293.4	1,890.93	3,978.81	5,124.30
Harrow.....	38.00	40.00	107,206.14	344.3	2,218.97	3,056.81	5,498.08
Hensall.....	50.00	50.00	61,060.24	145.8	939.66	2,118.19	3,025.25
Hespeler.....	29.00	29.00	415,505.74	1,709.0	11,014.31	10,530.26	21,633.40
Highgate.....	44.00	46.00	24,954.31	68.7	442.76	1,330.51	1,246.75
Humberstone...	28.00	28.00	76,226.10	312.6	2,014.67	1,853.67	3,974.84
Ingersoll.....	28.00	28.00	519,032.66	2,027.0	13,063.78	12,727.12	26,520.76
Jarvis.....	38.00	38.00	62,634.32	188.7	1,216.15	1,788.68	3,146.39
Kingsville....	38.00	38.00	130,086.72	414.1	2,668.83	3,825.16	6,620.87
Kitchener.....	27.00	27.00	3,531,411.04	14,769.0	95,184.51	75,063.22	182,090.28
Lambeth.....	42.00	42.00	30,562.24	96.8	623.86	1,174.14	1,551.89
LaSalle.....	36.00	36.00	67,103.66	227.5	1,466.21	1,971.19	3,454.39
Leamington....	37.00	37.00	311,537.32	993.7	6,404.28	7,812.47	15,946.80
Listowel.....	36.00	37.00	255,677.47	868.9	5,599.96	8,555.56	13,080.29
London.....	26.00	26.00	6,589,672.45	28,407.3	183,081.79	130,736.05	341,743.34
London Ry. Com.	15.00	kw. hr.	320,512.58	1,109.0	7,147.38	9,612.91	15,998.20

## SYSTEM

## N.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to it reserve of the system and proportionately applied in reduction of such Municipality; and the amount remaining to be credited or supplied to it in the year ending October 31, 1932

costs and fixed charges		Total cost of power for year	Amount appropriated from contingency reserve and proportionately applied in reduction of such cost	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
197.13	182.79	2,289.19	39.80	2,249.39	2,308.37	58.98	.....
2,360.92	3,210.34	38,733.16	1,427.70	37,305.46	38,785.24	1,479.78	.....
1,791.05	2,059.55	25,826.65	760.80	25,065.85	28,203.32	3,137.47	.....
501.53	595.93	7,922.91	220.90	7,702.01	8,850.52	1,148.51	.....
5,809.07	7,098.42	84,379.13	2,617.80	81,761.33	86,440.25	4,678.92	.....
1,791.79	2,028.43	23,964.73	699.00	23,265.73	23,807.27	541.54	.....
1,003.30	1,116.61	13,584.52	376.10	13,208.42	13,987.29	778.87	.....
300.82	309.60	3,991.63	89.40	3,902.23	4,728.64	826.41	.....
322.32	305.70	4,208.66	70.30	4,138.36	4,132.52	.....	5.84
74.38	67.58	959.96	13.60	946.36	995.46	49.10	.....
880.86	1,021.17	12,410.29	349.10	12,061.19	12,278.16	216.97	.....
5,076.78	6,790.42	82,222.38	2,894.60	79,327.78	85,335.69	6,007.91	.....
1,155.82	1,258.23	15,356.63	404.80	14,951.83	16,295.19	1,343.36	.....
1,879.02	2,067.35	24,501.89	682.60	23,819.29	23,891.52	72.23	.....
220.05	270.61	3,995.70	110.40	3,885.30	3,752.99	.....	132.31
1,172.79	1,181.69	15,782.26	313.70	15,468.56	15,878.66	410.10	.....
10,140.31	13,574.83	166,980.41	5,873.20	161,107.21	175,347.08	14,239.87	.....
2,831.54	3,057.77	35,447.72	976.10	34,471.62	34,163.28	.....	308.34
827.86	766.03	10,717.63	163.60	10,554.03	10,008.37	.....	545.66
3,506.96	3,617.13	43,775.71	1,035.40	42,740.31	42,218.22	.....	522.09
232.74	228.74	3,183.55	59.20	3,124.35	3,056.04	.....	68.31
12,871.32	17,103.23	210,646.36	7,359.40	203,286.96	198,704.64	.....	4,582.32
1,743.25	2,051.11	24,227.68	760.60	23,467.08	25,115.60	1,648.52	.....
126,708.28	177,920.44	2,125,645.05	81,794.40	2,043,850.65	1,922,169.47	.....	121,681.18
976.83	1,013.09	12,983.96	293.40	12,690.56	13,003.28	312.72	.....
946.83	1,061.93	12,782.62	344.30	12,438.32	14,435.89	1,997.57	.....
634.36	606.28	7,323.74	145.80	7,177.94	7,708.65	530.71	.....
3,084.98	4,044.34	50,307.29	1,709.00	48,598.29	52,306.83	3,708.54	.....
244.61	249.34	3,513.97	68.70	3,445.27	3,312.34	.....	132.93
583.26	742.68	9,169.12	312.60	8,856.52	8,752.07	.....	104.45
3,993.17	5,034.68	61,339.51	2,027.00	59,312.51	56,755.38	.....	2,557.13
581.29	613.33	7,345.84	188.70	7,157.14	7,620.95	463.81	.....
1,155.99	1,289.30	15,560.15	414.10	15,146.05	16,676.76	1,530.71	.....
25,500.02	34,182.64	412,020.67	14,769.00	397,251.67	398,763.29	1,511.62	.....
279.04	302.75	3,931.68	96.80	3,834.88	4,280.33	445.45	.....
569.67	662.40	8,123.86	227.50	7,896.36	8,191.50	295.14	.....
2,768.19	3,089.81	36,021.55	993.70	35,027.85	39,011.82	3,983.97	.....
2,215.21	2,524.55	31,975.57	868.90	31,106.67	31,999.48	892.81	.....
46,204.23	63,794.08	765,559.49	28,407.30	737,152.19	789,438.34	52,286.15	.....
2,692.38	3,114.27	38,565.14	1,109.00	37,456.14	30,886.12	.....	6,570.02



## NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each by the Commission; the amount appropriated from the contingency cost; the amount received by the Commission from each charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse- power supplied in year after correction for power factor	Cost of power pur- chased	Share of operating	
	To Jan. 1 1932	To Oct. 31 1932				Operating, main- tenance and adminis- trative expenses	Interest (including exchange)
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
London twp....	34.00	34.00	84,169.30	311.0	2,004.36	2,492.39	4,362.06
Long Branch....	29.00	29.00	169,225.28	667.7	4,303.25	4,592.65	8,884.72
Lucan.....	37.00	37.00	41,829.08	147.3	949.33	1,584.98	2,114.38
Lynden.....	40.00	40.00	25,147.91	83.3	536.86	819.39	1,255.65
Markham.....	43.00	43.00	70,103.12	229.3	1,477.81	3,277.01	3,591.21
Merlin.....	45.00	45.00	35,994.31	96.5	621.93	1,602.13	1,803.92
Merritton.....	22.00	23.00	505,791.24	2,584.4	16,656.16	10,848.75	26,993.84
Milton.....	31.00	34.00	173,143.70	621.6	4,006.14	5,978.29	8,680.94
Milverton.....	34.00	35.00	96,451.12	328.3	2,115.86	3,042.63	4,838.82
Mimico.....	26.00	26.00	446,535.48	1,964.8	12,662.91	9,584.78	23,305.04
Mitchell.....	32.00	33.00	126,577.55	464.5	2,993.65	3,897.37	6,455.37
Moorefield.....	60.00	61.00	21,160.87	43.5	280.35	958.01	1,051.65
Mount Brydges.	45.00	42.00	27,112.20	92.2	594.22	1,188.40	1,387.76
Newbury.....	52.00	52.00	17,129.78	40.9	263.60	963.20	859.22
New Hamburg..	33.00	35.00	131,468.31	447.8	2,886.02	3,436.75	6,657.67
New Toronto...	29.00	30.00	1,228,941.14	4,868.6	31,377.57	27,693.13	63,121.69
Niagara Falls...	19.00	19.00	1,538,190.07	8,568.3	55,221.71	28,290.07	81,812.90
Niagara-on-Lake	27.00	27.00	97,157.45	473.3	3,050.36	3,473.92	5,120.03
Norwich.....	34.00	34.00	97,530.69	330.7	2,131.32	3,079.14	4,832.43
Oil Springs....	42.00	45.00	62,988.96	173.2	1,116.25	2,377.25	3,151.21
Otterville.....	43.00	43.00	28,350.63	74.3	478.85	1,454.49	1,360.84
Palmerston....	38.00	40.00	131,719.83	422.6	2,723.61	4,754.94	6,695.30
Paris.....	28.00	28.00	281,098.12	1,172.9	7,559.21	7,170.25	14,466.47
Parkhill.....	62.00	62.00	63,445.86	132.5	853.95	2,421.95	3,155.00
Petrolia.....	40.00	40.00	290,515.81	880.1	5,672.14	10,263.28	14,682.75
Plattsville....	62.00	62.00	25,875.43	62.2	400.87	1,069.92	1,288.75
Point Edward..	40.00	40.00	153,075.54	537.2	3,462.19	6,361.66	7,850.52
Port Colborne..	28.00	28.00	317,925.72	1,303.8	8,402.84	8,147.99	16,523.29
Port Credit....	32.00	32.00	129,463.15	484.4	3,121.90	4,199.75	6,677.10
Port Dalhousie.	28.00	30.00	115,959.40	477.5	3,077.43	3,338.98	6,028.49
Port Dover.....	40.00	40.00	103,487.55	325.5	2,097.81	4,004.43	5,232.43
Port Rowan....	80.00	70.00	35,180.76	69.8	449.85	1,352.28	1,747.20
Port Stanley...	40.00	40.00	111,237.00	356.1	2,295.02	3,846.50	5,577.06
Preston.....	27.00	27.00	625,208.10	2,669.2	17,202.69	15,152.39	32,219.97
Princeton.....	55.00	55.00	39,678.26	109.2	703.78	1,646.52	2,011.30
Queenston.....	29.00	29.00	18,900.48	85.4	550.39	648.65	985.31
Richmond Hill..	38.00	38.00	82,718.45	286.4	1,845.82	2,514.55	4,247.64
Ridgetown.....	38.00	38.00	121,885.92	394.0	2,539.28	5,653.18	6,188.12
Riverside.....	33.00	33.00	339,652.50	1,147.0	7,392.28	7,215.16	17,432.45
Rockwood.....	45.00	45.00	34,863.44	100.6	648.36	1,017.21	1,758.92

## SYSTEM

## N.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to it reserve of the system and proportionately applied in reduction of such Municipality; and the amount remaining to be credited or supplied to it in the year ending October 31, 1932

costs and fixed charges		Total cost of power for year	Amount appropriated from contingency reserve and proportionately applied in reduction of such cost	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
686.20	825.04	10,370.05	311.00	10,059.05	11,138.46	1,079.41	.....
1,294.00	1,652.66	20,727.28	667.70	20,059.58	19,693.44	.....	366.14
354.56	411.50	5,414.75	147.30	5,267.45	5,450.38	182.93	.....
224.89	248.48	3,085.27	83.30	3,001.97	3,346.42	344.45	.....
554.19	674.13	9,574.35	229.30	9,345.05	10,389.09	1,044.04	.....
357.87	360.27	4,746.12	96.50	4,649.62	4,595.51	.....	54.11
2,957.66	4,827.11	62,283.52	2,584.40	59,699.12	59,044.93	.....	654.19
1,450.60	1,703.56	21,819.53	621.60	21,197.93	22,020.52	822.59	.....
828.30	947.77	11,773.38	328.30	11,445.08	11,429.13	.....	15.95
3,036.26	4,321.56	52,910.55	1,964.80	50,945.75	51,941.55	995.80	.....
1,024.45	1,237.43	15,608.27	464.50	15,143.77	16,192.50	1,048.73	.....
236.55	214.60	2,741.16	43.50	2,697.66	2,737.14	39.48	.....
235.82	267.33	3,673.53	92.20	3,581.33	4,119.91	538.58	.....
179.76	172.41	2,438.19	40.90	2,397.29	2,248.03	.....	149.26
1,139.26	1,293.41	15,413.11	447.80	14,965.31	15,521.77	556.46	.....
9,281.76	11,942.68	143,416.83	4,868.60	138,548.23	145,205.18	6,656.95	.....
7,907.63	14,540.18	187,772.49	8,568.30	179,204.19	162,797.47	.....	16,406.72
619.66	931.54	13,195.51	473.30	12,722.21	12,780.19	57.98	.....
816.26	937.08	11,796.23	330.70	11,465.53	11,243.21	.....	222.32
615.74	630.13	7,890.58	173.20	7,717.38	8,152.71	435.33	.....
267.99	269.93	3,832.10	74.30	3,757.80	3,371.33	.....	386.47
1,188.30	1,305.69	16,667.84	422.60	16,245.24	16,757.05	511.81	.....
2,051.98	2,728.10	33,976.01	1,172.90	32,803.11	34,988.93	2,185.82	.....
706.32	642.10	7,779.32	132.50	7,646.82	8,326.18	679.36	.....
2,685.70	2,890.84	36,194.71	880.10	35,314.61	36,631.65	1,317.04	.....
273.35	260.17	3,293.06	62.20	3,230.86	4,046.88	816.02	.....
1,276.47	1,509.82	20,460.66	537.20	19,923.46	22,617.12	2,693.66	.....
2,432.66	3,097.57	38,604.35	1,303.80	37,300.55	38,919.30	1,618.75	.....
1,047.58	1,269.40	16,315.73	484.40	15,831.33	15,578.35	.....	252.98
882.52	1,127.77	14,455.19	477.50	13,977.69	14,195.26	217.57	.....
936.02	1,014.42	13,285.11	325.50	12,959.61	13,227.15	267.54	.....
395.42	354.22	4,298.97	69.80	4,229.17	5,014.49	785.32	.....
990.81	1,088.65	13,798.04	356.10	13,441.94	15,073.64	1,631.70	.....
4,462.04	6,066.56	75,103.65	2,669.20	72,434.45	72,128.41	.....	306.04
393.65	396.23	5,151.48	109.20	5,042.28	6,030.96	988.68	.....
132.34	182.50	2,499.19	85.40	2,413.79	2,516.31	102.52	.....
648.37	811.23	10,067.61	286.40	9,781.21	11,494.85	1,713.64	.....
1,084.43	1,206.49	16,671.50	394.00	16,277.50	15,854.15	.....	423.35
2,891.89	3,353.53	38,285.31	1,147.00	37,138.31	40,317.30	3,178.99	.....
338.08	347.61	4,110.18	100.60	4,009.58	4,528.47	518.89	.....

## NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each by the Commission; the amount appropriated from the contingency cost; the amount received by the Commission from each charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1932	To Oct. 31 1932				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Rodney.....	45.00	45.00	51,020.41	134.0	863.61	2,264.06	2,547.68
St. Catharines..	21.50	21.50	1,547,565.36	7,807.8	50,320.38	34,199.42	81,705.09
St. Clair Beach..	38.00	38.00	27,510.62	85.3	549.75	801.18	1,402.93
St. George.....	40.00	40.00	41,816.48	132.7	855.24	1,950.79	2,116.33
St. Jacobs.....	32.00	32.00	43,287.58	156.8	1,010.56	1,195.04	2,210.84
St. Marys.....	34.00	34.00	387,364.67	1,429.1	9,210.39	12,377.04	19,795.38
St. Thomas.....	28.00	28.00	1,290,601.12	5,469.8	35,252.23	30,572.27	65,785.41
Sandwich.....	30.00	32.00	851,787.93	2,966.5	19,118.75	19,020.72	43,703.55
Sarnia.....	34.00	34.00	1,976,769.54	6,837.4	44,066.26	48,809.57	101,293.49
Scarboro twp....	32.00	32.00	754,359.49	2,712.7	17,483.04	15,803.69	38,393.13
Seaforth.....	34.00	35.00	134,528.77	461.3	2,973.03	4,300.03	6,761.81
Simcoe.....	31.00	31.00	364,639.95	1,422.9	9,170.43	11,259.21	18,651.44
Springfield...	46.00	48.00	26,661.51	63.9	411.83	1,139.11	1,316.46
Stamford twp....	21.00	21.00	310,686.04	1,732.4	11,165.12	6,412.72	16,631.08
Stouffville.....	47.00	47.00	64,789.84	180.3	1,162.01	2,457.17	3,289.68
Stratford.....	30.00	30.00	1,782,304.05	7,216.8	46,511.45	43,136.25	92,063.94
Strathroy.....	34.00	34.00	248,012.70	909.5	5,861.62	7,179.65	12,695.55
Sutton.....	60.00	60.00	71,974.50	166.9	1,075.65	2,740.47	3,627.38
Tavistock.....	34.00	36.00	140,439.85	482.4	3,109.01	5,762.55	7,081.39
Tecumseh.....	35.00	37.00	113,801.59	363.5	2,342.72	2,921.97	5,823.59
Thamesford....	40.00	40.00	45,583.81	143.6	925.49	1,679.75	2,301.25
Thamesville....	40.00	40.00	50,402.78	165.5	1,066.63	2,506.06	2,562.01
Thedford.....	68.00	72.00	30,872.54	56.4	363.49	1,699.62	1,495.94
Thorndale.....	62.00	65.00	21,367.26	43.5	280.35	1,034.22	1,049.97
Thorold.....	24.00	25.00	393,624.88	1,885.2	12,149.90	9,447.92	20,833.35
Tilbury.....	38.00	38.00	142,370.77	474.8	3,060.03	4,788.24	7,257.47
Tillsonburg....	33.00	33.00	232,192.02	810.6	5,224.22	6,875.86	11,782.26
Toronto.....	26.10	26.10	59,298,457.14	249,574.3	1,608,477.76	1,054,678.50	3,082,150.21
Toronto twp....	32.00	32.00	396,890.69	1,542.0	9,938.02	11,685.60	20,596.98
Walkerville....	28.00	28.00	1,867,828.79	7,200.1	46,403.82	38,013.15	96,077.64
Wallaceburg....	35.00	36.00	508,854.65	1,627.0	10,485.83	14,685.94	25,784.45
Wardsville....	65.00	60.00	15,001.37	32.7	210.75	926.79	750.75
Waterdown.....	31.00	34.00	59,965.46	223.7	1,441.72	1,565.14	3,068.51
Waterford.....	32.00	32.00	98,603.79	367.9	2,371.07	3,107.45	5,013.25
Waterloo.....	27.00	27.00	668,828.15	2,754.9	17,755.01	14,854.65	34,389.41
Watford.....	55.00	55.00	81,711.86	196.8	1,268.35	3,938.80	4,093.16
Welland.....	23.00	23.00	814,794.00	3,970.2	25,587.48	17,991.08	42,856.17
Wellesley.....	45.00	45.00	41,115.73	107.0	689.60	1,865.48	2,042.76
West Lorne....	38.00	40.00	33,694.87	107.3	691.54	1,385.98	1,625.23
Weston.....	28.00	28.00	578,049.70	2,472.5	15,934.98	12,609.96	29,914.87



## SYSTEM

## N.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to it reserve of the system and proportionately applied in reduction of such Municipality; and the amount remaining to be credited or supplied to it in the year ending October 31, 1932

costs and fixed charges		Total cost of power for year	Amount appropriated from contingency reserve and proportionately applied in reduction of such cost	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
509.24	505.40	6,689.99	134.00	6,555.99	6,119.49		436.50
9,242.03	14,798.50	190,265.42	7,807.80	182,457.62	169,626.54		12,831.08
248.83	273.10	3,275.79	85.30	3,190.49	3,440.05	249.56	
381.03	413.16	5,716.55	132.70	5,583.85	5,610.05	26.20	
357.55	423.86	5,197.85	156.80	5,041.05	5,335.41	294.36	
3,070.53	3,792.24	48,245.58	1,429.10	46,816.48	49,392.63	2,576.15	
8,925.86	12,304.05	152,839.82	5,469.80	147,370.02	163,054.11	15,684.09	
7,080.15	8,393.06	97,316.23	2,966.50	94,349.73	99,909.22	5,559.49	
16,672.81	19,515.83	230,357.96	6,837.40	223,520.56	246,967.56	23,447.00	
5,583.62	7,292.40	84,555.88	2,712.70	81,843.18	86,804.76	4,961.58	
1,149.61	1,321.71	16,506.19	461.30	16,044.89	16,323.34	278.45	
2,772.75	3,508.54	45,362.37	1,422.90	43,939.47	46,840.89	2,901.42	
277.93	265.66	3,410.99	63.90	3,347.09	3,227.17		119.92
1,594.08	2,936.51	38,739.51	1,732.40	37,007.11	36,380.72		626.39
603.49	647.81	8,160.16	180.30	7,979.86	8,950.86	971.00	
13,274.61	17,370.83	212,357.08	7,216.80	205,140.28	230,000.47	24,860.19	
2,034.81	2,432.43	30,204.06	909.50	29,294.56	32,780.12	3,485.56	
738.63	726.04	8,908.17	166.90	8,741.27	10,015.00	1,273.73	
1,176.77	1,364.32	18,494.04	482.40	18,011.64	17,493.87		517.77
1,008.90	1,127.65	13,224.83	363.50	12,861.33	14,145.20	1,283.87	
417.03	451.27	5,774.79	143.60	5,631.19	6,076.02	444.83	
443.75	498.53	7,076.98	165.50	6,911.48	6,714.72		196.76
345.70	307.11	4,211.86	56.40	4,155.46	4,211.53	56.07	
239.81	216.37	2,820.72	43.50	2,777.22	2,947.47	170.25	
2,527.58	3,780.97	48,739.72	1,885.20	46,854.52	47,574.34	719.82	
1,239.86	1,406.92	17,752.52	474.80	17,277.72	19,105.07	1,827.35	
1,972.19	2,276.84	28,131.37	810.60	27,320.77	28,459.23	1,138.46	
379,243.69	576,524.90	6,701,075.06	249,574.30	6,451,500.76	6,513,889.35	62,388.59	
3,093.49	3,879.89	49,193.98	1,542.00	47,651.98	49,345.84	1,693.86	
14,189.08	18,268.29	212,951.98	7,200.10	205,751.88	215,498.71	9,746.83	
4,564.04	5,042.49	60,562.75	1,627.00	58,935.75	59,701.50	765.75	
163.30	151.59	2,203.18	32.70	2,170.48	2,017.50		152.98
492.20	588.84	7,156.41	223.70	6,932.71	7,947.25	1,014.54	
784.99	954.94	12,231.70	367.90	11,863.80	12,500.05	636.25	
4,907.78	6,482.31	78,389.16	2,754.90	75,634.26	79,423.00	3,788.74	
848.78	820.68	10,969.77	196.80	10,772.97	11,397.64	624.67	
5,178.69	7,812.00	99,425.42	3,970.20	95,455.22	91,314.35		4,140.87
417.76	411.23	5,426.83	107.00	5,319.83	5,098.11		221.72
300.75	329.57	4,333.07	107.30	4,225.77	4,294.13	68.36	
4,064.47	5,609.27	68,133.55	2,472.50	65,661.05	69,230.30	3,569.25	

## NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each by the Commission; the amount appropriated from the contingency cost; the amount received by the Commission from each charged to each Municipality in respect of power

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1932	To Oct. 31 1932				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Wheatley.....	51.00	51.00	63,020.76	148.5	957.07	2,052.59	3,168.96
Windsor.....	28.00	28.00	5,711,157.26	22,076.7	142,281.80	112,737.07	294,017.83
Woodbridge.....	35.00	35.00	85,126.00	292.8	1,887.06	2,548.56	4,337.73
Woodstock.....	27.00	27.00	1,163,803.29	4,763.3	30,698.92	26,862.16	59,821.11
Wyoming.....	54.00	54.00	25,690.53	60.4	389.27	1,655.05	1,282.77
York East twp..	32.00	32.00	1,165,629.05	4,883.9	31,476.18	46,613.25	61,090.06
York North twp.	32.00	32.00	672,254.52	2,489.1	16,041.96	20,307.85	34,982.24
Zurich.....	62.00	62.00	41,568.40	84.7	545.88	1,595.63	2,059.70
Toronto Transportation Comm.			128,290.08	513.3	3,308.16	3,609.81	5,961.27
Sandwich, Windsor and Amherstburg Railway Company.			770,676.74	2,915.6	18,790.71	15,579.89	39,862.65
Windsor, Essex and Lake Shore Railway Association.....			228,738.88	669.1	4,312.27	4,718.74	11,737.73
RURAL POWER DISTRICTS							
Acton R.P.D.—Erin, Esquesing and Nassagaweya twps..			2,915.91	10.0	64.45	75.81	150.62
Ailsa Craig R.P.D.—Lobo, McGillivray and Williams E. twps.....			1,937.98	5.6	36.10	65.25	99.49
Alvinston R.P.D. — Brooke twp.....			2,428.92	3.2	20.62	111.97	120.40
Amherstburg R.P.D.—Anderdon, Colchester N., Colchester S. and Malden twps....			171,418.21	540.9	3,486.03	4,395.96	8,740.88
Aylmer R.P.D. — Bayham, Dereham, Dorchester N., Dorchester S., Malahide, and Yarmouth twps.....			79,073.11	263.7	1,699.52	2,030.26	3,998.56
Ayr R.P.D.—Blenheim, Dumfries N. and Dumfries S. twps			9,308.51	35.5	228.78	293.79	481.78
Baden R.P.D. — Blandford, Blenheim, Easthope N., Easthope S., Waterloo, Wellesley, Wilmot, and Zorra E. twps..			90,638.54	329.2	2,121.65	2,192.73	4,666.63
Beamsville R.P.D.—Caister, Clinton, Gainsborough, Grimsby N., Grimsby S., Louth, Pelham, and Wainfleet twps.....			269,350.05	1,022.1	6,587.32	7,238.74	13,958.93
Belle River R.P.D.—Maidstone and Rochester twps..			74,694.37	253.2	1,631.84	2,073.75	3,817.77
Blenheim R.P.D. — Raleigh and Harwich twps.....			36,588.93	117.7	758.56	1,337.41	1,867.85

SYSTEM

N.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to it reserve of the system and proportionately applied in reduction of such Municipality; and the amount remaining to be credited or supplied to it in the year ending October 31, 1932

costs and fixed charges		Total cost of power for year	Amount appropriated from contingency reserve and proportionately applied in reduction of such cost	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
658.25	633.44	7,470.31	148.50	7,321.81	8,021.89	700.08	.....
43,267.36	55,846.04	648,150.10	22,076.70	626,073.40	664,737.02	38,663.62	.....
729.55	838.52	10,341.42	292.80	10,048.62	10,340.48	291.86	.....
8,540.82	11,239.45	137,162.46	4,763.30	132,399.16	137,373.13	4,973.97	.....
270.30	258.75	3,856.14	60.40	3,795.74	3,441.36	.....	354.38
7,499.74	11,336.96	158,016.19	4,883.90	153,132.29	156,283.97	3,151.68	.....
5,026.80	6,600.10	82,958.95	2,489.10	80,469.85	79,651.71	.....	818.14
467.03	421.37	5,089.61	84.70	5,004.91	5,541.21	536.30	.....
976.62	1,251.44	15,107.30	513.30	14,594.00	16,313.42	1,719.42	.....
5,960.67	7,548.46	87,742.38	2,915.60	84,826.78	84,826.78	.....	.....
2,147.10	2,279.27	25,195.11	669.10	24,526.01	24,526.01	.....	.....
25.37	28.77	345.02	10.00	335.02	335.02	see page	171
18.69	19.32	238.85	5.60	233.25	233.25	"	"
30.36	24.97	308.32	3.20	305.12	305.12	"	"
1,532.53	1,699.93	19,855.33	540.90	19,314.43	19,314.43	"	"
682.71	770.37	9,181.42	263.70	8,917.72	8,917.72	"	"
74.11	91.02	1,169.48	35.50	1,133.98	1,133.98	"	"
746.69	887.09	10,614.79	329.20	10,285.59	10,285.59	"	"
2,213.11	2,639.09	32,637.19	862.10	31,775.09	31,775.09	"	"
632.77	736.36	8,892.49	253.20	8,639.29	8,639.29	"	"
326.74	362.37	4,652.93	117.70	4,535.23	4,535.23	"	"



## NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each by the Commission; the amount appropriated from the contingency cost; the amount received by the Commission from each charged to each Municipality in respect of power

Rural Power District	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.		\$ c.	\$ c.	\$ c.
<b>Bond Lake</b> R.P.D.—King, Markham, Vaughan, Whitchurch, York N. twps..	254,782.59	803.6	5,179.11	7,663.40	13,017.84
<b>Bothwell</b> R.P.D.—Aldborough, Ekfrid, Mosa, Orford and Zone twps.....	41,905.93	113.5	731.50	1,942.17	2,121.75
<b>Brampton</b> R.P.D.—Chinguacousy and Toronto twps.....	29,796.51	118.8	765.65	1,357.09	1,548.56
<b>Brant</b> R.P.D.—Blenheim, Brantford, Burford, Dumfries S., Oakland and Onondaga twps.....	106,377.35	429.6	2,768.72	3,693.53	5,538.25
<b>Brigden</b> R.P.D.—Moore and Sombra twps.....	17,990.13	36.5	235.23	667.96	906.72
<b>Burford</b> R.P.D.—Brantford, Burford, Oakland, Townsend and Windham twps.	39,890.76	143.1	922.26	1,231.74	2,068.21
<b>Caledonia</b> R.P.D.—Ancaster, Barton, Binbrook, Caistor, Glanford, Grimsby S., Oneida, Onondaga and Seneca twps.	72,868.86	277.5	1,788.46	1,954.09	3,784.29
<b>Chatham</b> R.P.D.—Chatham, Dover E., Harwich and Raleigh twps.....	108,333.18	413.5	2,664.96	2,876.42	5,595.61
<b>Chippawa</b> R.P.D.—Bertie, Crowland and Willoughby twps.....	20,716.80	99.6	641.91	452.01	1,076.44
<b>Clinton</b> R.P.D.—Goderich, Hay, Hullett, Stanley and Tuckersmith twps.....	41,075.63	121.5	783.05	1,543.52	2,091.68
<b>Delaware</b> R.P.D.—Caradoc, Delaware, Ekfrid, Lobo, London, Southwold and Westminster twps.....	73,471.14	273.3	1,761.39	1,925.56	3,776.09
<b>Dorchester</b> R.P.D.—Dorchester N., Dorchester S., London, Nissouri E., Nissouri W., Oxford N., Westminster and Yarmouth twps.....	89,370.77	306.5	1,975.36	2,394.06	4,544.63
<b>Dresden</b> R.P.D.—Camden, Chatham Gore and Dawn twps.....	12,141.25	35.1	226.22	363.09	621.72
<b>Drumbo</b> R.P.D.—Blandford, Blenheim and Burford twps.....	28,296.31	75.2	484.66	1,026.02	1,420.71
<b>Dundas</b> R.P.D.—Ancaster, Beverly, Flamboro W., Flamboro E., Glanford and Nelson twps.....	123,060.48	512.2	3,301.08	2,442.75	6,408.20
<b>Dunnville</b> R.P.D.—Canborough, Dunn and Moulton twps.....	8,607.80	31.8	204.95	231.32	448.30
<b>Dutton</b> R.P.D.—Aldborough and Dunwich twps.....	35,814.88	117.2	755.34	1,260.13	1,821.59
<b>Elmira</b> R.P.D.—Peel, Pilkington and Woolwich twps.....	21,554.08	73.1	471.12	488.74	1,111.03
<b>Elora</b> R.P.D.—Garafraxa W., Nichol, Peel and Pilkington twps.....	33,695.12	110.6	712.80	909.69	1,728.39
<b>Essex</b> R.P.D.—Colchester N., Gosfield N., Gosfield S., Maidstone, Mersea, Rochester and Sandwich S. twps.....	61,828.45	208.7	1,345.05	1,490.93	3,168.23

## SYSTEM

## N.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to it  
 reserve of the system and proportionately applied in reduction of such  
 Municipality; and the amount remaining to be credited or  
 supplied to it in the year ending October 31, 1932

costs and fixed charges		Total cost of power for year	Amount appropriat- ed from contingency reserve and pro- portionate- ly applied in reduc- tion of such cost	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.		
2,162.70	2,517.33	30,540.38	803.60	29,736.78	29,736.78	see page	171
414.44	419.17	5,629.03	113.50	5,515.53	5,515.53	"	"
227.60	290.74	4,189.64	118.80	4,070.84	4,070.84	"	"
806.66	1,037.89	13,845.05	429.60	13,415.45	13,415.45	"	"
203.07	184.24	2,197.22	36.50	2,160.72	2,160.72	"	"
336.30	393.17	4,951.68	143.10	4,808.58	4,808.58	"	"
586.06	713.26	8,826.16	277.50	8,548.66	8,548.66	"	"
844.94	1,060.41	13,042.34	413.50	12,628.84	12,628.84	"	"
134.46	198.88	2,503.70	99.60	2,404.10	2,404.10	"	"
387.19	407.37	5,212.81	121.50	5,091.31	5,091.31	"	"
595.63	719.82	8,778.49	273.30	8,505.19	8,505.19	"	"
771.78	880.14	10,565.97	306.50	10,259.47	10,259.47	"	"
115.91	121.03	1,447.97	35.10	1,412.87	1,412.87	see page	173
285.63	283.08	3,500.10	75.20	3,424.90	3,424.90	"	"
911.87	1,195.84	14,259.74	472.20	13,787.54	13,787.54	"	"
72.54	84.49	1,041.60	31.80	1,009.80	1,009.80	"	"
313.64	349.55	4,500.25	117.20	4,383.05	4,383.05	"	"
187.27	212.05	2,470.21	73.10	2,397.11	2,397.11	"	"
302.52	333.66	3,987.06	110.60	3,876.46	3,876.46	"	"
526.60	610.48	7,141.29	208.70	6,932.59	6,932.59	"	"

## NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each by the Commission; the amount appropriated from the contingency cost; the amount received by the Commission from each charged to each Municipality in respect of power

Rural Power District	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.		\$ c.	\$ c.	\$ c.
<b>Exeter</b> R.P.D.—Biddulph, Bosanquet, Hay, Hibbert, Stephen, Tuckersmith and Osborne twps.....	90,615.95	252.3	1,626.04	2,576.71	4,562.42
<b>Forest</b> R.P.D.—Adelaide, Bosanquet, Plympton, Warwick and Williams W. twps.....	13,615.58	32.5	209.46	570.75	673.21
<b>Galt</b> R.P.D.—Beverly, Dumfries N. and Dumfries S. twps.....	40,343.03	165.7	1,067.92	2,023.92	2,099.82
<b>Georgetown</b> R. P. D.—Chinguacousy, Erin and Esquesing twps.....	36,573.61	116.0	747.61	885.30	1,874.64
<b>Goderich</b> R.P.D.—Ashfield, Colborne, Goderich and Wawanosh W. twps....	35,670.92	77.9	502.06	1,482.82	1,757.46
<b>Grantham</b> R. P. D.—Grantham and Niagara twps.....	126,184.08	578.1	3,725.80	4,037.96	6,622.09
<b>Guelph</b> R.P.D.—Eramosa, Guelph, Nassagaweya and Puslinch twps.....	99,594.68	364.0	2,345.94	2,273.46	5,168.92
<b>Haldimand</b> R.P.D.—Cayuga N., Oneida, Rainham, Seneca and Walpole twps...	65,686.51	210.5	1,356.65	1,785.21	3,381.74
<b>Harriston</b> R.P.D.—Howick and Minto twps.....	6,469.28	16.9	108.92	239.69	329.62
<b>Harrow</b> R.P.D.—Colchester N., Colchester S., Gosfield S. and Malden twps.	118,495.80	369.4	2,380.74	2,838.68	6,074.64
<b>Ingersoll</b> R.P.D.—Dereham, Dorchester N., Nissouri E., Oxford N., Oxford W., Zorra E. and Zorra W. twps.....	91,209.82	301.8	1,945.07	2,527.66	4,653.46
<b>Jordan</b> R.P.D.—Grantham, Louth, Pelham and Thorold twps.....	56,976.72	262.2	1,689.85	1,200.13	3,000.43
<b>Keswick</b> R.P.D.—Georgina, Gwillimbury N. and Gwillimbury E. twps.....	139,678.41	376.9	2,429.08	4,930.48	7,139.41
<b>Kingsville</b> R.P.D.—Gosfield N., Gosfield S., Mersea and Romney twps.....	178,944.24	564.6	3,638.78	4,296.57	9,099.22
<b>Listowel</b> R.P.D.—Elma, Grey, Maryborough, Mornington, Peel, Wallace and Wellesley twps.....	35,222.23	119.7	771.45	1,108.76	1,813.88
<b>London</b> R.P.D.—Delaware, Lobo, London, Nissouri W. and Westminster twps.	370,830.93	1,368.0	8,816.60	8,106.99	18,493.56
<b>Lucan</b> R. P. D.—Biddulph, London, McGillivray and Stephen twps.....	16,227.33	57.2	368.65	467.56	830.48
<b>Lynden</b> R. P. D.—Ancaster, Beverly, Brantford and Dumfries S. twps....	51,148.75	173.6	1,118.83	1,429.15	2,618.05
<b>Markham</b> R.P.D.—Markham, Pickering, Scarboro, Uxbridge and Whitchurch twps.....	107,783.02	361.5	2,329.83	3,186.79	5,507.93
<b>Merlin</b> R.P.D.—Raleigh, Romney and Tilbury E. twps.....	61,224.57	161.9	1,043.43	2,358.92	3,113.61
<b>Milton</b> R.P.D.—Esquesing, Nassagaweya, Nelson and Trafalgar twps....	39,637.83	140.7	906.80	1,515.30	2,047.56



## SYSTEM

## N.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to it reserve of the system and proportionately applied in reduction of such Municipality; and the amount remaining to be credited or supplied to it in the year ending October 31, 1932

costs and fixed charges		Total cost of power for year	Amount appropriated from contingency reserve and proportionately applied in reduction of such cost	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
882.63	898.14	10,545.94	252.30	10,293.64	10,293.64	see page	173
137.50	133.66	1,724.58	32.50	1,692.08	1,692.08	"	"
299.33	392.29	5,883.28	165.70	5,717.58	5,717.58	"	"
335.42	362.62	4,205.59	116.00	4,089.59	4,089.59	"	"
378.32	352.50	4,473.16	77.90	4,395.26	4,395.26	"	"
858.40	1,215.91	16,460.16	448.10	16,012.06	16,012.06	"	"
824.90	978.11	11,591.33	364.00	11,227.33	11,227.33	"	"
600.63	650.62	7,774.85	210.50	7,564.35	7,564.35	"	"
65.51	64.84	808.58	16.90	791.68	791.68	"	"
1,067.97	1,175.94	13,537.97	369.40	13,168.57	13,168.57	"	"
802.19	895.64	10,824.02	301.80	10,522.22	10,522.22	"	"
384.58	549.06	6,824.05	262.20	6,561.85	6,561.85	"	"
1,336.29	1,406.68	17,241.94	376.90	16,865.04	16,865.04	"	"
1,600.67	1,675.11	20,310.35	564.60	19,745.75	19,745.75	"	"
305.16	347.78	4,347.03	119.70	4,227.33	4,227.33	"	"
2,832.20	3,498.33	41,747.68	1,368.00	40,379.68	40,379.68	see page	175
137.34	159.55	1,963.58	57.20	1,906.38	1,906.38	"	"
449.76	504.57	6,120.36	173.60	5,946.76	5,946.76	"	"
867.01	1,058.10	12,949.66	361.50	12,588.16	12,588.16	"	"
612.95	613.25	7,742.16	161.90	7,580.26	7,580.26	"	"
335.03	390.30	5,194.99	140.70	5,054.29	5,054.29	"	"

## NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each by the Commission; the amount appropriated from the contingency cost; the amount received by the Commission from each charged to each Municipality in respect of power

Rural Power District	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, maintenance and administrative expenses	Interest (including exchange)
<b>Milverton</b> R.P.D.—Ellice, Elma, Mornington and Wellesley twps.....	\$ c. 20,330.27	69.2	\$ c. 445.99	\$ c. 588.67	\$ c. 1,044.37
<b>Mitchell</b> R.P.D.—Downie, Ellice, Elma, Fullarton, Hibbert, Logan and McKillop twps.....	51,627.64	173.3	1,116.90	1,392.30	2,643.03
<b>Newmarket</b> R.P.D.—Georgina, Gwillimbury E., King, Scott, Uxbridge, and Whitchurch twps.....	68,101.11	225.8	1,455.26	2,103.67	3,525.67
<b>Niagara</b> R.P.D.—Niagara and Stamford twps.....	93,812.03	470.6	3,032.96	2,145.11	4,942.69
<b>Norwich</b> R.P.D.—Burford, Dereham, Middleton, Norwich N., Norwich S., Oxford E. and Windham twps.....	67,524.08	225.3	1,452.03	1,873.90	3,336.03
<b>Oil Springs</b> R.P.D.—Brooke, Dawn, Enniskillen and Euphemia twps.....	15,392.98	42.2	271.98	548.18	778.63
<b>Palmerston</b> R.P.D.—Arthur, Maryborough, Minto, Peel and Wallace twps..	11,407.84	36.6	235.88	359.48	587.84
<b>Petrolia</b> R.P.D.—Enniskillen, Moore, Plympton and Sarnia twps.....	8,119.61	25.3	163.06	266.76	414.82
<b>Preston</b> R.P.D.—Dumfries N., Guelph, Puslinch, Waterloo and Woolwich twps.	207,571.20	795.9	5,129.49	4,974.10	10,715.04
<b>Ridgetown</b> R.P.D.—Aldborough, Harwich, Howard, Orford and Rondeau Park twps.....	99,643.75	278.7	1,796.19	4,659.90	5,028.19
<b>St. Jacobs</b> R.P.D.—Peel, Waterloo, Wellesley and Woolwich twps.....	62,490.67	224.3	1,445.58	1,453.30	3,203.23
<b>St. Marys</b> R.P.D.—Blanshard, Downie, Fullarton, Nissouri E., Nissouri W. and Osborne twps.....	66,317.99	207.0	1,334.09	1,926.82	3,390.67
<b>St. Thomas</b> R.P.D.—Dunwich, Southwold, Westminster and Yarmouth twps.	116,302.53	445.3	2,869.91	2,860.63	5,910.07
<b>Saltfleet</b> R. P. D.—Barton, Binbrook, Grimsby N. and Saltfleet twps.....	252,973.26	968.2	6,239.94	6,639.35	13,084.15
<b>Sandwich</b> R.P.D.—Anderdon, Colchester N., Maidstone, Sandwich E., Sandwich W. and Sandwich S. twps.....	266,967.50	961.6	6,197.41	5,629.15	13,711.09
<b>Sarnia</b> R.P.D.—Moore, Plympton and Sarnia twps.....	163,924.47	510.7	3,291.40	4,813.42	8,377.61
<b>Scarboro</b> R.P.D.—Pickering, Scarboro and York N. twps.....	91,286.10	285.5	1,840.01	2,008.86	4,195.09
<b>Seaforth</b> R. P. D.—Hibbert, Hullett, McKillop and Tuckersmith twps.....	14,805.30	48.6	313.22	439.66	757.92
<b>Simcoe</b> R.P.D.—Charlotteville, Townsend, Walpole, Windham and Woodhouse twps.....	50,338.39	195.4	1,259.33	1,922.10	2,580.15
<b>Stamford</b> R.P.D.—Thorold twp.....	47,402.89	223.4	1,439.78	876.22	2,503.88
<b>Stratford</b> R.P.D.—Downie, Easthope N., Easthope S. and Ellice twps.....	46,630.29	187.8	1,210.35	1,078.22	2,414.16

## SYSTEM

N.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to it reserve of the system and proportionately applied in reduction of such Municipality; and the amount remaining to be credited or supplied to it in the year ending October 31, 1932

costs and fixed charges		Total cost of power for year	Amount appropriated from contingency reserve and proportionately applied in reduction of such cost	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
174.59	199.77	2,453.39	69.20	2,384.19	2,384.19	see page	175
448.46	508.18	6,108.87	173.30	5,935.57	5,935.57	"	"
568.68	679.94	8,333.22	225.80	8,107.42	8,107.42	"	"
574.25	896.84	11,591.85	470.60	11,121.25	11,121.25	"	"
570.04	648.20	7,880.20	225.30	7,654.90	7,654.90		
150.77	154.00	1,903.56	42.20	1,861.36	1,861.36	"	"
102.91	113.07	1,399.18	36.60	1,362.58	1,362.58	"	"
73.72	80.65	999.01	25.30	973.71	973.71	"	"
1,640.78	2,027.35	24,486.76	795.90	23,690.86	23,690.86	"	"
964.82	992.23	13,441.33	278.70	13,162.63	13,162.63	"	"
520.02	612.32	7,234.45	224.30	7,010.15	7,010.15	"	"
598.05	656.79	7,906.42	207.00	7,699.42	7,699.42	"	"
895.18	1,119.98	13,655.77	445.30	13,210.47	13,210.47	"	"
2,041.00	2,474.27	30,478.71	668.20	29,810.51	29,810.51	"	"
2,157.74	2,624.22	30,319.61	961.60	29,358.01	29,358.01	"	"
1,489.44	1,629.03	19,600.90	510.70	19,090.20	19,090.20	"	"
634.37	800.29	9,478.62	285.50	9,193.12	9,193.12	"	"
130.60	145.91	1,787.31	48.60	1,738.71	1,738.71	see page	177
384.79	484.63	6,631.00	195.40	6,435.60	6,435.60	"	"
310.92	456.02	5,586.82	223.40	5,363.42	5,363.42	"	"
349.19	454.67	5,506.59	187.80	5,318.79	5,318.79	"	"



## NIAGARA

Statement showing the amount chargeable (upon annual adjustment) to each by the Commission; the amount appropriated from the contingency cost; the amount received by the Commission from each charged to each Municipality in respect of power

Rural Power District	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, maintenance and administrative expenses	Interest (including exchange)
<b>Strathroy</b> R.P.D.—Adelaide, Caradoc, Ekfrid, Lobo, Metcalfe and Williams E. twps.....	\$ c. 29,414.54	90.9	\$ c. 585.84	\$ c. 1,063.98	\$ c. 1,507.01
<b>Streetsville</b> R.P.D.—Chinguacousy, Esquesing, Toronto and Trafalgar twps.....	97,172.90	322.3	2,077.19	2,954.38	4,987.52
<b>Tavistock</b> R.P.D.—Easthope N., Easthope S., Ellice and Zorra E. twps.....	44,008.76	151.7	977.69	1,681.75	2,230.29
<b>Thamesville</b> R.P.D.—Camden, Chatham, Euphemia, Harwich, Howard, Orford and Zone twps.....	30,393.97	99.8	643.20	1,128.94	1,561.91
<b>Tilbury</b> R.P.D.—Dover W., Rochester, Romney, Mersea, Tilbury E., Tilbury W. and Tilbury N. twps.....	40,753.17	133.6	861.04	1,326.00	2,128.52
<b>Tillsonburg</b> R.P.D.—Bayham, Dereham, Dorchester S., Houghton, Malahide, Middleton, Norwich N., Norwich S. and Walsingham N. twps.....	86,273.34	279.2	1,799.41	2,471.76	4,356.05
<b>Wallaceburg</b> R.P.D.—Chatham, Dover E. and Sombra twps.....	60,639.38	189.8	1,223.24	1,647.46	3,079.59
<b>Walsingham</b> R. P. D.—Charlotteville, Houghton, Middleton, Walsingham N., Walsingham S. and Windham twps....	56,267.53	130.8	842.99	1,998.75	2,817.49
<b>Walton</b> R.P.D.—Grey, Hullett, McKillop, Morris, Wawanosh E. and Wawanosh W. twp.....	31,516.76	80.5	518.81	1,119.57	1,591.64
<b>Waterdown</b> R. P. D.—Flamboro E., Flamboro W. and Nelson twps.....	186,464.38	697.8	4,497.24	4,661.36	9,709.24
<b>Waterford</b> R. P. D.—Townsend and Windham twps.....	38,219.37	142.6	919.04	1,129.12	1,956.35
<b>Watford</b> R.P.D.—Adelaide, Metcalfe and Warwick twps.....	6,747.92	17.2	110.85	271.84	342.26
<b>Welland</b> R. P. D.—Bertie, Crowland, Humberstone, Moulton, Pelham, Thorold, Wainfleet and Willoughby twps...	255,951.77	1,063.9	6,856.71	8,384.10	12,995.83
<b>Woodbridge</b> R.P.D.—Albion, Chinguacousy, Etobicoke, King, Toronto, Toronto Gore, Vaughan, York N. twps....	153,862.46	516.6	3,329.43	3,593.58	7,848.89
<b>Woodstock</b> R. P. D.—Blandford, Blenheim, Burford, Oxford W., Oxford N., Oxford E., Zorra W. and Zorra E. twps.	131,464.75	491.6	3,168.31	2,970.22	6,727.63
Totals—Municipalities.....	138,317,794.69	572,228.4	3,687,946.44	2,883,556.93	7,165,279.10
Totals—Rural power districts.....	6,814,186.74	23,962.4	154,434.95	190,535.31	348,547.85
Totals—Companies.....	51,301,996.39	253,611.8	1,634,498.99	1,122,405.25	2,759,620.49
Totals—Local distribution systems.....	1,667,098.14	5,671.9	36,554.74	150,353.90	127,286.94
Non-operating capital.....	340,038.59				
	198,441,114.55				
Less:—*Adjustment (for purposes of this statement).....	148,277.20				
Grand total.....	198,292,837.35	855,474.5	5,513,435.12	4,346,851.39	10,400,734.38

\*In respect of transfer to the books of the Commission, of the Dominion Power Company plants and equipment.

SYSTEM

N.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to it reserve of the system and proportionately applied in reduction of such Municipality; and the amount remaining to be credited or supplied to it in the year ending October 31, 1932

costs and fixed charges		Total cost of power for year	Amount appropriated from contingency reserve and proportionately applied in reduction of such cost	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
272.77	291.83	3,721.43	90.90	3,630.53	3,630.53	see page	177
862.50	960.79	11,842.38	322.30	11,520.08	11,520.08	"	"
367.96	427.55	5,685.24	151.70	5,533.54	5,533.54	"	"
267.59	300.62	3,902.26	99.80	3,802.46	3,802.46	"	"
369.81	410.58	5,095.95	133.60	4,962.35	4,962.35	"	"
773.76	850.55	10,251.53	279.20	9,972.33	9,972.33	"	"
551.59	601.69	7,103.57	189.80	6,913.77	6,913.77	"	"
596.13	562.08	6,817.44	130.80	6,686.64	6,686.64	"	"
321.88	315.77	3,867.67	80.50	3,787.17	3,787.17	"	"
1,540.05	1,829.27	22,237.16	417.80	21,819.36	21,819.36	"	"
304.27	370.15	4,678.93	142.60	4,536.33	4,536.33	"	"
68.56	67.60	861.11	17.20	843.91	843.91	"	"
1,860.39	2,430.49	32,527.52	1,063.90	31,463.62	31,463.62	"	"
1,340.53	1,516.89	17,629.32	516.60	17,112.72	17,112.72	"	"
1,053.29	1,280.59	15,200.04	491.60	14,708.44	14,708.44	"	"
963,795.90	1,344,591.94	16,045,170.31	572,228.40	15,472,941.91	15,681,876.30	393,614.97	184,680.58
56,915.08	66,569.70	817,002.89	23,052.40	793,950.49	793,950.49		
313,306.82	491,353.52	6,321,185.07	.....	6,321,185.07	4,399,799.35	.....	1,921,385.72*
8,758.40	12,097.61	335,051.59	.....	335,051.59	307,069.48	.....	27,982.11*
1,342,776.20	1,914,612.77	23,518,409.86	595,280.80	22,923,129.06	21,182,695.62	393,614.97	2,134,048.41

\*Written off through Contingency Reserve.

## NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
<b>Acton</b> R.P.D.—Erin, Esquesing and Nassagaweya twps.....	14,744.94	7,372.47	7,372.47	335.02
<b>Ailsa Craig</b> R.P.D.—Lobo, McGillivray and Williams E. twps.....	9,136.52	4,568.26	4,568.26	233.25
<b>Alvinston</b> R.P.D.—Brooke twp.....	5,443.70	2,721.85	2,721.85	305.12
<b>Amherstburg</b> R.P.D.—Anderdon, Colchester N., Colchester S. and Malden twps.....	128,345.89	64,087.45	64,258.44	19,314.43
<b>Aylmer</b> R.P.D.—Bayham, Dereham, Dorchester N., Dorchester S., Malahide and Yarmouth twps.....	*187,663.70	91,987.01	95,676.69	8,917.72
<b>Ayr</b> R.P.D.—Blenheim, Dumfries N. and Dumfries S. twps.....	*40,130.92	20,029.98	20,100.94	1,133.98
<b>Baden</b> R.P.D.—Blandford, Blenheim, Easthope N., Easthope S., Waterloo, Wellesley, Wilmot and Zorra E. twps.....	*163,651.98	81,489.80	82,162.18	10,285.59
<b>Beamsville</b> R.P.D.—Caistor, Clinton, Gainsborough, Grimsby N., Grimsby S., Louth, Pelham and Wainfleet twps.....	344,834.51	166,495.05	178,339.46	31,775.09
<b>Belle River</b> R.P.D.—Maidstone and Rochester twps.....	88,526.16	44,186.91	44,339.25	8,639.29
<b>Blenheim</b> R.P.D.—Raleigh and Harwich twps..	*104,765.90	51,533.68	53,232.22	4,535.23
<b>Bond Lake</b> R.P.D.—King, Markham, Vaughan, Whitchurch and York N. twps.....	313,500.12	156,750.06	156,750.06	29,736.78
<b>Bothwell</b> R.P.D.—Aldborough, Ekfrid, Mosa, Orford and Zone twps.....	*57,246.91	28,291.44	28,955.47	5,515.53
<b>Brampton</b> R.P.D.—Chinguacousy and Toronto twps.....	77,628.84	38,814.42	38,814.42	4,070.84
<b>Brant</b> R.P.D.—Blenheim, Brantford, Burford, Dumfries S., Oakland and Onondaga twps.....	*215,412.97	106,485.67	108,927.30	13,415.45
<b>Brigden</b> R.P.D.—Moore and Sombra twps.....	53,051.89	26,525.95	26,525.94	2,160.72
<b>Burford</b> R.P.D.—Brantford, Burford, Oakland, Townsend and Windham twps.....	90,236.05	45,118.02	45,118.03	4,808.58
<b>Caledonia</b> R.P.D.—Ancaster, Barton, Binbrook, Caistor, Glanford, Grimsby S., Oneida, Onondaga and Seneca twps.....	197,283.10	98,416.28	98,866.82	8,548.66
<b>Chatham</b> R.P.D.—Chatham, Dover E., Harwich and Raleigh twps.....	253,249.60	126,624.80	126,624.80	12,628.84
<b>Chippawa</b> R.P.D.—Bertie, Crowland and Wiloughby twps.....	57,421.86	28,708.05	28,713.81	2,404.10
<b>Clinton</b> R.P.D.—Goderich, Hay, Hullett, Stanley and Tuckersmith twps.....	120,173.77	59,148.11	61,025.66	5,091.31
<b>Delaware</b> R.P.D.—Caradoc, Delaware, Ekfrid, Lobo, London, Southwold and Westminster twps.....	*217,547.56	107,852.62	109,694.94	8,505.19
<b>Dorchester</b> R.P.D.—Dorchester N., Dorchester S., London, Nissouri E., Nissouri W., Oxford N., Westminster and Yarmouth twps.....	*198,330.09	97,972.13	100,357.96	10,259.47

Items marked \* include portions of transmission lines aggregating \$48,421.61 used for



## RURAL POWER DISTRICTS

## N.—RURAL OPERATING

District, the revenues collected from (or charged to) customers within each District, to the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1932

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest (including exchange)	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
393.46	352.86	291.89	145.94	76.84	1,596.01	1,353.89	.....	242.12
220.77	218.11	180.42	90.21	47.50	990.26	936.54	.....	53.72
108.96	131.56	108.83	54.42	28.65	737.54	471.56	.....	265.98
5,745.20	2,931.89	2,421.85	1,210.93	638.45	32,262.75	35,719.13	3,456.38	.....
6,471.61	4,406.98	3,572.67	1,786.33	959.67	26,114.98	28,970.48	2,855.50	.....
1,369.00	960.82	793.38	396.69	209.23	4,863.10	4,016.05	.....	847.05
4,121.45	3,739.72	3,080.06	1,540.03	814.37	23,581.22	21,548.07	.....	2,033.15
20,842.49	8,261.00	6,484.09	3,242.05	1,798.92	72,403.64	78,246.21	5,842.57	.....
4,172.27	2,105.74	1,738.83	869.42	458.54	17,984.09	21,079.62	3,095.53	.....
4,161.53	2,526.84	2,056.24	1,028.12	550.24	14,858.20	16,982.74	2,124.54	.....
14,563.93	7,313.68	6,049.90	3,024.95	1,592.64	62,281.88	63,691.44	1,409.56	.....
2,939.95	1,376.51	1,125.37	562.64	299.75	11,819.75	10,883.82	.....	935.93
2,527.64	1,871.49	1,548.10	774.05	407.54	11,199.66	10,246.15	.....	953.51
9,650.60	5,086.60	4,159.36	2,079.68	1,107.66	35,499.35	31,832.57	.....	3,666.78
1,407.24	1,225.66	1,013.87	506.94	266.90	6,581.33	5,433.09	.....	1,148.24
4,043.39	2,131.24	1,762.97	881.48	464.10	14,091.76	13,048.41	.....	1,043.35
7,142.05	4,724.69	3,899.25	1,949.63	1,028.85	27,293.13	25,412.94	.....	1,880.19
11,156.45	5,727.82	4,738.07	2,369.04	1,247.30	37,867.52	38,986.20	1,118.68	.....
2,344.53	1,215.45	1,005.39	502.69	264.68	7,736.84	8,402.36	665.52	.....
3,646.97	2,897.69	2,359.43	1,179.72	631.00	15,806.12	15,088.29	.....	717.83
8,635.68	5,222.83	4,283.49	2,141.74	1,137.33	29,926.26	30,946.30	1,020.04	.....
9,405.93	4,801.42	3,924.03	1,962.02	1,045.56	31,398.43	30,405.77	.....	992.66

purposes of rural power districts.

## NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
<b>Dresden</b> R.P.D.—Camden, Chatham Gore and Dawn twps.....	36,069.15	18,034.57	18,034.58	1,412.87
<b>Drumbo</b> R.P.D.—Blandford, Blenheim and Burford twps.....	*99,682.26	48,466.55	51,215.71	3,424.90
<b>Dundas</b> R.P.D.—Ancaster, Beverly, Flamboro W., Flamboro E., Glanford and Nelson twps...	228,247.73	110,655.78	117,591.95	13,787.54
<b>Dunnville</b> R.P.D.—Canborough, Dunn and Moulton twps.....	28,419.84	14,209.92	14,209.92	1,009.80
<b>Dutton</b> R.P.D.—Aldborough and Dunwich twps.	72,575.03	36,287.51	36,287.52	4,383.05
<b>Elmira</b> R.P.D.—Peel, Pilkington and Woolwich twps.....	34,218.72	17,109.36	17,109.36	2,397.11
<b>Elora</b> R.P.D.—Garafraxa W., Nichol, Peel and Pilkington twps.....	81,199.13	40,340.99	40,858.14	3,876.46
<b>Essex</b> R.P.D.—Colchester N., Gosfield N., Gosfield S., Maidstone, Mersea, Rochester and Sandwich S. twps.....	*139,097.96	68,662.04	70,435.92	6,932.59
<b>Exeter</b> R.P.D.—Biddulph, Bosanquet, Hay, Hibbert, Stephen, Tuckersmith and Usborne twps.....	*131,744.98	65,140.82	66,604.16	10,293.64
<b>Forest</b> R.P.D.—Adelaide, Bosanquet, Plympton, Warwick and Williams W. twps.....	*56,420.70	27,877.83	28,542.87	1,692.08
<b>Galt</b> R.P.D.—Beverly, Dumfries N. and Dumfries S. twps.....	77,140.48	38,570.24	38,570.24	5,717.58
<b>Georgetown</b> R.P.D.—Chinguacousy, Erin and Esqueping twps.....	99,102.73	49,551.37	49,551.36	4,089.59
<b>Goderich</b> R.P.D.—Ashfield, Colborne, Goderich and Wawanosh W. twps.....	61,396.67	30,432.63	30,964.04	4,395.26
<b>Grantham</b> R.P.D.—Grantham and Niagara twps.....	137,617.06	64,728.53	72,888.53	16,012.06
<b>Guelph</b> R.P.D.—Eramosa, Guelph, Nassagaweya and Puslinch twps.....	172,137.28	86,039.56	86,097.72	11,227.33
<b>Haldimand</b> R.P.D.—Cayuga N., Oneida, Rainham, Seneca and Walpole twps.....	*99,007.20	48,264.28	50,742.92	7,564.35
<b>Harriston</b> R.P.D.—Howick and Minto twps...	*32,254.87	15,847.28	16,407.59	791.68
<b>Harrow</b> R.P.D.—Colchester N., Colchester S., Gosfield S. and Malden twps.....	135,147.28	67,573.64	67,573.64	13,168.57
<b>Ingersoll</b> R.P.D.—Dereham, Dorchester N., Nis-souri E., Oxford N., Oxford W., Zorra E. and Zorra W. twps.....	284,585.37	142,292.68	142,292.69	10,522.22
<b>Jordan</b> R.P.D.—Grantham, Louth, Pelham and Thorold twps.....	93,027.76	46,513.88	46,513.88	6,561.85
<b>Keswick</b> R.P.D.—Georgina, Gwillimbury N. and Gwillimbury E. twps.....	155,465.50	75,167.64	80,297.86	16,865.04
<b>Kingsville</b> R.P.D.—Gosfield N., Gosfield S., Mersea and Romney twps.....	*284,880.30	140,260.33	144,619.97	19,745.75
<b>Listowel</b> R.P.D.—Elma, Grey, Maryborough, Morrington, Peel, Wallace and Wellesley twps.	89,990.65	44,995.32	44,995.33	4,227.33

Items marked \* include portions of transmission lines aggregating \$48,421.61 used for

## RURAL POWER DISTRICTS

## N.—RURAL OPERATING

District, the revenues collected from (or charged to) customers within each District, to the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1932

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest (including exchange)	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,000.95	869.34	719.12	359.56	189.31	4,551.15	4,195.55	.....	355.60
3,495.52	2,423.00	1,949.33	974.66	527.64	12,795.05	12,107.80	.....	687.25
8,431.43	5,463.64	4,254.81	2,127.40	1,189.76	35,254.58	37,760.71	2,506.13	.....
1,391.31	579.76	479.58	239.79	126.25	3,826.49	2,446.64	.....	1,379.85
4,070.64	1,746.36	1,444.59	722.30	380.29	12,747.23	10,260.05	.....	2,487.18
1,948.72	684.45	566.18	283.09	149.05	6,028.60	4,827.03	.....	1,201.57
3,974.34	1,950.38	1,603.87	801.94	424.71	12,631.70	11,225.47	.....	1,406.23
4,528.13	3,350.24	2,735.85	1,367.93	729.55	19,644.29	23,583.63	3,939.34	.....
8,988.38	3,137.55	2,566.13	1,283.06	683.24	26,952.00	26,837.27	.....	114.73
2,016.68	1,361.15	1,112.86	556.43	296.41	7,035.61	6,253.67	.....	781.94
2,493.94	1,814.44	1,500.91	750.46	395.11	12,672.44	12,897.12	224.68	.....
3,053.04	2,305.61	1,907.21	953.60	502.07	12,811.12	11,646.40	.....	1,164.72
1,953.20	1,410.33	1,161.30	580.65	307.12	9,807.86	7,586.55	.....	2,221.31
8,237.64	3,465.61	2,540.36	1,270.18	754.68	32,280.53	32,807.81	527.28	.....
6,745.67	4,051.89	3,350.68	1,675.34	882.34	27,933.25	25,298.05	.....	2,635.20
5,139.42	2,404.57	1,946.41	973.21	523.62	18,551.58	17,943.59	.....	607.99
935.66	792.83	644.62	322.31	172.65	3,659.75	2,945.45	.....	714.30
5,772.86	3,181.54	2,631.78	1,315.89	692.82	26,763.46	31,380.18	4,616.72	.....
11,242.48	6,817.15	5,639.17	2,819.58	1,484.51	38,525.11	32,398.66	.....	6,126.45
4,620.06	2,179.59	1,802.96	901.48	474.63	16,540.57	19,161.46	2,620.89	.....
8,207.92	3,302.02	2,628.85	1,314.44	719.05	33,037.32	31,039.34	.....	1,997.98
15,562.79	6,767.71	5,511.08	2,755.54	1,473.75	51,816.62	54,234.46	2,417.84	.....
4,366.41	2,100.46	1,737.51	868.76	457.40	13,757.87	12,629.10	.....	1,128.77

purposes of rural power districts.



## NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
<b>London</b> R.P.D.—Delaware, Lobo, London, Nissouri W. and Westminster twps.....	*445,009.86	222,201.69	222,808.17	40,379.68
<b>Lucan</b> R.P.D.—Biddulph, London, McGillivray and Stephen twps.....	*57,785.57	28,739.07	29,046.50	1,906.38
<b>Lynden</b> R.P.D.—Ancaster, Beverly, Brantford and Dumfries S. twps.....	99,123.31	49,387.91	49,735.40	5,946.76
<b>Markham</b> R.P.D.—Markham, Pickering, Scarboro, Uxbridge and Whitchurch twps.....	*219,093.51	108,611.56	110,481.95	12,588.16
<b>Merlin</b> R.P.D.—Raleigh, Romney and Tilbury E. twps.....	*134,908.18	67,173.94	67,734.24	7,580.26
<b>Milton</b> R.P.D.—Esquesing, Nassagaweya, Nelson and Trafalgar twps.....	107,405.36	53,702.68	53,702.68	5,054.29
<b>Milverton</b> R.P.D.—Ellice, Elma, Mornington and Wellesley twps.....	61,870.97	30,935.49	30,935.48	2,384.19
<b>Mitchell</b> R.P.D.—Downie, Ellice, Elma, Fullarton, Hibbert, Logan and McKillop twps.....	104,545.15	52,272.58	52,272.57	5,935.57
<b>Newmarket</b> R.P.D.—Georgina, Gwillimbury E., King, Scott, Uxbridge and Whitchurch twps...	111,442.59	55,721.29	55,721.30	8,107.42
<b>Niagara</b> R.P.D.—Niagara and Stamford twps...	*124,201.40	61,690.00	62,511.40	11,121.25
<b>Norwich</b> R.P.D.—Burford, Dereham, Middleton, Norwich N., Norwich S., Oxford E. and Windham twps.....	*180,854.76	88,715.10	92,139.66	7,654.90
<b>Oil Springs</b> R.P.D.—Brooke, Dawn, Enniskillen and Euphemia twps.....	29,475.91	14,737.95	14,737.96	1,861.36
<b>Palmerston</b> R.P.D.—Arthur, Maryborough, Minto, Peel and Wallace twps.....	*59,827.84	29,633.77	30,194.07	1,362.58
<b>Petrolia</b> R.P.D.—Enniskillen, Moore, Plympton and Sarnia twps.....	*25,416.61	12,162.25	13,254.36	973.71
<b>Preston</b> , R.P.D.—Dumfries N., Guelph, Puslinch, Waterloo and Woolwich twps.....	*298,210.15	147,680.69	150,529.46	23,690.86
<b>Ridgetown</b> R.P.D.—Aldborough, Harwich, Howard, Orford and Rondeau Park twps.....	199,313.74	99,656.87	99,656.87	13,162.63
<b>St. Jacobs</b> R.P.D.—Peel, Waterloo, Wellesley and Woolwich twps.....	106,116.55	52,773.03	53,343.52	7,010.15
<b>St. Marys</b> R.P.D.—Blanshard, Downie, Fullarton, Nissouri E., Nissouri W. and Osborne twps.....	189,595.63	94,797.82	94,797.81	7,699.42
<b>St. Thomas</b> R.P.D.—Dunwich, Southwold, Westminster and Yarmouth twps.....	292,443.84	145,528.17	146,915.67	13,210.47
<b>Saltfleet</b> R.P.D.—Barton, Binbrook, Grimsby N. and Saltfleet twps.....	288,136.13	141,228.57	146,907.56	29,810.51
<b>Sandwich</b> R.P.D.—Anderdon, Colchester N., Maidstone, Sandwich W., Sandwich E. and Sandwich S. twps.....	336,484.01	168,242.00	168,242.01	29,358.01
<b>Sarnia</b> R.P.D.—Moore, Plympton and Sarnia twps.....	*212,608.74	104,067.66	108,541.08	19,090.20
<b>Scarboro</b> R.P.D.—Pickering, Scarboro and York N. twps.....	177,090.45	88,545.23	88,545.22	9,193.12

Items marked \* include portions of transmission lines aggregating \$48,421.61 used for

## RURAL POWER DISTRICTS

N.—RURAL OPERATING

District, the revenues collected from (or charged to) customers within each District, to the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1932

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest (including exchange)	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
24,733.14	10,277.57	8,489.50	4,244.75	2,238.06	90,362.70	90,303.42	.....	59.28
1,625.03	1,390.47	1,144.05	572.02	302.79	6,940.74	6,405.47	.....	535.27
3,166.54	2,273.35	1,875.42	937.71	495.05	14,694.83	13,770.92	.....	923.91
7,850.03	5,068.29	4,155.10	2,077.55	1,103.67	32,842.80	38,416.27	5,573.47	.....
4,635.10	3,265.25	2,689.81	1,344.90	711.04	20,226.36	18,126.18	.....	2,100.18
3,952.40	2,294.77	1,898.24	949.12	499.71	14,648.53	14,424.00	.....	224.53
2,206.40	1,416.98	1,172.13	586.07	308.56	8,074.33	6,938.66	.....	1,135.67
4,774.15	2,497.46	2,065.91	1,032.95	543.85	16,849.89	16,042.14	.....	807.75
5,399.98	2,589.39	2,141.95	1,070.98	563.87	19,873.59	19,208.14	.....	665.45
6,232.22	2,963.85	2,435.31	1,217.65	645.41	24,615.69	25,589.22	973.53	.....
8,900.81	4,143.11	3,364.63	1,682.32	902.21	26,647.98	24,120.35	.....	2,527.63
1,693.87	678.69	561.41	280.70	147.79	5,223.82	5,346.11	122.29	.....
1,586.65	1,412.60	1,157.27	578.64	307.61	6,405.35	4,741.13	.....	1,664.22
1,282.48	637.58	505.64	252.82	138.84	3,791.07	3,496.33	.....	294.74
11,319.60	7,017.48	5,748.45	2,874.23	1,528.13	52,178.75	52,432.43	253.68	.....
7,552.06	4,762.21	3,939.31	1,969.65	1,037.02	32,422.88	30,622.03	.....	1,800.85
4,411.62	2,535.61	2,092.64	1,046.32	552.16	17,648.50	16,944.97	.....	703.53
4,397.76	4,539.03	3,754.70	1,877.35	988.42	23,256.68	21,896.00	.....	1,360.68
14,001.70	6,878.35	5,662.04	2,831.02	1,497.84	44,081.42	45,735.28	1,653.86	.....
18,437.99	6,962.18	5,541.56	2,770.78	1,516.09	65,039.11	70,661.14	5,622.03	.....
24,569.38	7,952.32	6,578.18	3,289.09	1,731.71	73,478.69	75,840.33	2,361.64	.....
13,880.02	5,048.02	4,086.27	2,043.14	1,099.26	45,246.91	47,086.09	1,839.18	.....
5,460.91	4,107.60	3,397.82	1,698.91	894.48	24,752.84	30,291.27	5,538.43	.....

purposes of rural power districts.

## NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
<b>Seaforth</b> R.P.D.—Hibbert, Hullett, McKillop and Tuckersmith twps.....	\$ c. 29,350.27	\$ c. 14,044.69	\$ c. 15,305.58	\$ c. 1,738.71
<b>Simcoe</b> R.P.D.—Charlotteville, Townsend, Walpole, Windham and Woodhouse twps.	*122,899.77	59,323.98	63,575.79	6,435.60
<b>Stamford</b> R.P.D.—Thorold twp.....	40,881.98	20,440.99	20,440.99	5,363.42
<b>Stratford</b> R.P.D.—Downie, Easthope N., Easthope S. and Ellice twps.....	66,485.17	32,981.73	33,503.44	5,318.79
<b>Strathroy</b> R.P.D.—Adelaide, Caradoc, Ekfrid, Lobo, Metcalfe and Williams E. twps.....	99,500.01	49,573.23	49,926.78	3,630.53
<b>Streetsville</b> R.P.D.—Chinguacousy, Esquesing, Toronto and Trafalgar twps..	181,448.70	90,724.35	90,724.35	11,520.08
<b>Tavistock</b> R.P.D.—Easthope N, Easthope S., Ellice and Zorra E. twps.....	118,384.90	59,192.45	59,192.45	5,533.54
<b>Thamesville</b> R.P.D.—Camden Chatham, Euphemia, Harwich, Howard, Orford and Zone twps.....	104,034.94	51,765.98	52,268.96	3,802.46
<b>Tilbury</b> R.P.D.—Dover W., Rochester, Romney, Mersea, Tilbury E., Tilbury W. and Tilbury N. twps.....	*99,714.82	49,420.08	50,294.74	4,962.35
<b>Tillsonburg</b> R.P.D.—Bayham, Dereham, Dorchester S., Houghton, Malahide, Middleton, Norwich N., Norwich S. and Walsingham N. twps.....	199,385.20	99,692.60	99,692.60	9,972.33
<b>Wallaceburg</b> R.P.D.—Chatham, Dover E. and Sombra twps.....	151,121.67	75,219.45	75,902.22	6,913.77
<b>Walsingham</b> R.P.D.—Charlotteville, Houghton, Middleton, Walsingham N., Walsingham S. and Windham twps.....	*131,499.59	65,220.78	66,278.81	6,686.64
<b>Walton</b> R.P.D.—Grey, Hullett, McKillop, Morris, Wawanosh E. and Wawanosh W. twps.....	*78,047.96	37,267.28	40,780.68	3,787.17
<b>Waterdown</b> R.P.D.—Flamboro E., Flamboro W. and Nelson twps.....	194,183.96	86,751.29	107,432.67	21,819.36
<b>Waterford</b> R.P.D.—Townsend and Windham twps.....	114,016.04	57,008.02	57,008.02	4,536.33
<b>Watford</b> R.P.D.—Adelaide, Metcalfe and Warwick twps.....	23,898.35	11,949.17	11,949.18	843.91
<b>Welland</b> R.P.D.—Bertie, Crowland, Hummerstone, Moulton, Pelham, Thorold, Wainfleet and Willoughby twps.....	*605,712.63	298,901.26	306,811.37	31,463.62
<b>Woodbridge</b> R.P.D.—Albion, Chinguacousy, Etobicoke, King, Toronto, Toronto Gore, Vaughan and York N. twps.....	*329,095.70	163,661.60	165,434.10	17,112.72
<b>Woodstock</b> R.P.D.—Blandford, Blenheim, Burford, Oxford W., Oxford N., Oxford E., Zorra W. and Zorra E. twps.....	221,581.81	110,790.91	110,790.90	14,708.44
	12,339,959.36	6,104,337.92	6,235,621.44	
Non-operating capital.....	74,311.70	37,121.67	37,190.03	
Totals.....	12,414,271.06	6,141,459.59	6,272,811.47	793,950.49

Items marked \* include portions of transmission lines aggregating \$48,421.61 used for



RURAL POWER DISTRICTS

N.—RURAL OPERATING

District, the revenues collected from (or charged to) customers within each District, to the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1932

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest (including exchange)	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,318.22	725.56	574.97	287.48	158.00	4,802.94	4,919.88	116.94	.....
4,292.95	2,960.98	2,364.66	1,182.33	644.78	17,881.30	17,561.89	.....	319.41
5,339.53	967.53	800.34	400.17	210.69	13,081.68	12,824.79	.....	256.89
4,371.33	1,598.68	1,312.00	656.00	348.13	13,604.93	12,755.02	.....	849.91
3,487.98	2,398.73	1,977.16	988.58	522.35	13,005.33	11,607.16	.....	1,398.17
5,753.78	4,179.38	3,457.20	1,728.60	910.11	27,549.15	27,670.19	121.04	.....
5,514.44	2,825.15	2,336.97	1,168.49	615.21	17,993.80	15,462.57	.....	2,531.23
4,260.77	2,469.50	2,032.72	1,016.36	537.77	14,119.58	13,566.86	.....	552.72
2,967.96	2,348.51	1,925.21	962.60	511.43	13,678.06	14,256.26	578.20	.....
7,967.20	4,732.82	3,915.00	1,957.50	1,030.62	29,575.47	28,048.66	.....	1,526.81
6,400.60	3,635.66	2,993.92	1,496.96	791.72	22,232.63	22,446.22	213.59	.....
3,839.93	2,905.88	2,382.59	1,191.30	632.79	17,639.13	18,631.26	992.13	.....
2,858.85	1,925.54	1,522.55	761.27	419.30	11,274.68	11,786.50	511.82	.....
12,018.53	4,879.56	3,219.97	1,609.99	1,062.58	44,609.99	54,999.34	10,389.35	.....
3,374.43	2,627.10	2,173.14	1,086.57	572.08	14,369.65	14,934.70	565.05	.....
873.47	577.69	477.87	238.94	125.80	3,137.68	3,080.46	.....	57.22
26,216.84	13,815.34	11,183.54	5,591.77	3,008.45	91,279.56	95,989.72	4,710.16	.....
10,932.13	7,809.42	6,424.68	3,212.34	1,700.58	47,191.87	50,338.24	3,146.37	.....
9,612.94	5,271.76	4,360.82	2,180.41	1,147.98	37,282.35	36,218.62	.....	1,063.73
.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....
546,720.01	290,757.17	236,925.30	118,462.65	63,315.62	2,050,131.24	2,070,703.84	83,723.96	63,151.36

purposes of rural power districts.

## NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1932, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1931		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Acton.....	Jan., 1913	597.71			597.71
Agincourt.....	Nov., 1922	430.55			430.55
Ailsa Craig.....	Jan., 1916	319.11			319.11
Alvinston.....	Apr., 1922	584.37			584.37
Amherstburg.....	Nov., 1925	2,619.51			2,619.51
Ancaster twp.....	May, 1923	151.87			151.87
Arkona.....	Dec., 1926	155.17			155.17
Aylmer.....	Mar., 1918	413.55			413.55
Ayr.....	Jan., 1915	731.76			731.76
Baden.....	May, 1912	263.84			263.84
Beachville.....	Aug., 1912	703.18			703.18
Belle River.....	Dec., 1922	149.24			149.24
Blenheim.....	Nov., 1915	380.83			380.83
Blyth.....	Jul., 1924	199.30			199.30
Bolton.....	Feb. 1915		88.93	88.93	
Bothwell.....	Sep. 1915		92.07	92.07	
Brampton.....	Nov. 1911	6,787.55			6,787.55
Brantford.....	Feb. 1914	9,823.21			9,823.21
Brantford twp.....	May, 1924		1,068.06	1,068.06	
Bridgeport.....	Mar., 1928		35.21	35.21	
Bridgen.....	Jan., 1918	677.27			677.27
Brussels.....	Jul., 1924		3.29	3.29	
Burford.....	Jun., 1915	585.92			585.92
Burgessville.....	Nov., 1916		50.84	50.84	
Caledonia.....	Oct., 1912	44.67			44.67
Campbellville.....	Jan., 1925	20.55			20.55
Cayuga.....	Nov., 1924	566.02			566.02
Chatham.....	Feb., 1915	6,204.99			6,204.99
Chippawa.....	Sept., 1919	304.88			304.88
Clifford.....	May, 1924		320.94	320.94	
Clinton.....	Mar., 1914	363.49			363.49
Comber.....	May, 1915		493.68	493.68	
Cottam.....	Nov., 1926	286.23			286.23
Courtright.....	Dec., 1923	341.11			341.11
Dashwood.....	Sep., 1917	62.76			62.76
Delaware.....	Mar., 1915		21.16	21.16	
Dorchester.....	Dec., 1914	159.56			159.56
Drayton.....	Mar., 1918		548.09	548.09	
Dresden.....	Apr., 1915	790.17			790.17
Drumbo.....	Dec. 1914	1.65		245.03	246.68
Dublin.....	Oct. 1917		332.68		
Dundas.....	Jan., 1911	916.69			916.69
Dunnville.....	Jun., 1918	2,189.14			2,189.14
Dutton.....	Sep., 1915	498.32			498.32
East Windsor.....	Nov., 1922	2,999.33			2,999.33

## SYSTEM

## N.—CREDIT OR CHARGE

supplied to it to October 31, 1931, the cash receipts and payments thereon, adjustments or Charged to each municipality in respect of power supplied in the year as a Credit or Charge to each municipality at October 31, 1932

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1932		Accumulated amount standing as a credit or charge on October 31, 1932	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
11.30			20.80		9.50
9.13		280.48		289.61	
6.38		526.17		532.55	
10.09			34.92		24.83
53.18		4,542.57		4,595.75	
2.67			32.26		29.59
2.66		20.52		23.18	
8.23		1,491.47		1,499.70	
12.69		847.90		860.59	
4.64		510.43		515.07	
15.29		1,310.37		1,325.66	
3.28		302.01		305.29	
6.49			283.00		276.51
3.77		639.01		642.78	
	1.99	657.93		655.94	
	1.88		625.72		627.60
116.42		4,029.41		4,145.83	
187.88			5,806.46		5,618.58
	18.79		267.27		286.06
	0.70	471.18		470.48	
11.64		761.21		772.85	
	0.06	833.67		833.61	
11.95		304.01		315.96	
	0.93		687.92		688.85
0.74		233.31		234.05	
0.42		143.99		144.41	
11.16		714.06		725.22	
104.43		7,183.98		7,288.41	
6.73		506.19		512.92	
	6.03	187.39		181.36	
6.08		571.46		577.54	
	8.47	606.01		597.54	
6.26		188.71		194.97	
6.90		93.04		99.94	
1.31		296.15		297.46	
	0.39	74.26		73.87	
3.19			7.62		4.43
	15.99		49.99		65.98
13.47		639.37		652.84	
1.32		477.73		479.05	
	13.31	58.98			287.01
17.73		1,479.78		1,497.51	
44.26		3,137.47		3,181.73	
8.60		1,148.51		1,157.11	
52.77		4,678.92		4,731.69	



## NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1932, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1931		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Elmira.....	Nov., 1913		864.08	864.08	
Elora.....	Nov., 1914	332.14		16.80	348.94
Embro.....	Jan., 1915	884.06			884.06
Erieau.....	Jul., 1924	26.38			26.38
Erie Beach.....	Jul., 1925	88.22			88.22
Essex.....	Nov., 1923	891.62			891.62
Etobicoke twp.....	Aug. 1917	5,687.03			5,687.03
Exeter.....	Jun., 1916	851.85			851.85
Fergus.....	Nov., 1914	331.83			331.83
Fonthill.....	Jun., 1926	120.57			120.57
Forest.....	Mar., 1917	955.69			955.69
Galt.....	May, 1911	9,657.65			9,657.65
Georgetown.....	Sep., 1913	167.82			167.82
Glencoe.....	Aug., 1920	273.77			273.77
Goderich.....	Feb., 1914	538.43			538.43
Granton.....	Jul., 1916		12.91	12.91	
Guelph.....	Dec., 1910	6,393.82			6,393.82
Hagersville.....	Sep., 1913	1,424.78			1,424.78
Hamilton.....	Feb., 1911		13,495.45	13,495.45	
Harriston.....	Jul., 1916		894.36		7.58
Harrow.....	Nov. 1923	322.62			322.62
Hensall.....	Jan., 1917	427.50			427.50
Hespeler.....	Feb., 1911	5,937.55			5,937.55
Highgate.....	Dec., 1916		87.85	87.85	
Humberstone.....	Oct., 1924		413.55		
Ingersoll.....	May, 1911	2,048.50			2,048.50
Jarvis.....	Feb. 1924	384.60			384.60
Kingsville.....	Nov., 1923	902.57			902.57
Kitchener.....	Jan., 1911	28,607.15			28,607.15
Lambeth.....	Apr., 1915	366.04			366.04
La Salle.....	Nov., 1925	743.92			743.92
Leamington.....	Nov., 1923	90.72			90.72
Listowel.....	Jun., 1916	337.99			337.99
London.....	Jan., 1911	31,807.49			31,807.49
London Railway Commission.....	Aug., 1914		5,508.18		
London twp.....	Jan., 1925	857.68			857.68
Long Branch.....	Jan., 1931	601.56			601.56
Lucan.....	Feb. 1915	484.85			484.85
Lynden.....	Nov. 1915	184.59			184.59
Markham.....	Apr., 1920	983.37			983.37
Merlin.....	Dec., 1922	153.35			153.35
Merritton.....	Nov., 1920		453.46	453.46	
Milton.....	Apr., 1913		1,728.72	1,728.72	
Milverton.....	Jun., 1916	248.31			248.31
Mimico.....	May, 1912	2,197.31			2,197.31

## SYSTEM

## N.—CREDIT OR CHARGE

supplied to it to October 31, 1931, the cash receipts and payments thereon, adjustments or Charged to each municipality in respect of power supplied in the year as a Credit or Charge to each municipality at October 31, 1932

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1932		Accumulated amount standing as a credit or charge on October 31, 1932	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	17.09	541.54	.....	524.45	.....
6.33	.....	778.87	.....	785.20	.....
16.25	.....	826.41	.....	842.66	.....
0.44	.....	.....	5.84	.....	5.40
1.62	.....	49.10	.....	50.72	.....
.....	.....	.....	.....	.....	.....
19.39	.....	216.97	.....	236.36	.....
95.09	.....	6,007.91	.....	6,103.00	.....
14.24	.....	1,343.36	.....	1,357.60	.....
6.56	.....	72.23	.....	78.79	.....
2.37	.....	.....	132.31	.....	129.94
.....	.....	.....	.....	.....	.....
19.01	.....	410.10	.....	429.11	.....
195.74	.....	14,239.87	.....	14,435.61	.....
2.88	.....	.....	308.34	.....	305.46
5.54	.....	.....	545.66	.....	540.12
10.94	.....	.....	522.09	.....	511.15
.....	.....	.....	.....	.....	.....
.....	0.28	.....	68.31	.....	68.59
127.18	.....	.....	4,582.32	.....	4,455.14
29.47	.....	1,648.52	.....	1,677.99	.....
.....	441.00	.....	121,681.18	.....	122,122.18
.....	35.93	312.72	.....	.....	625.15
.....	.....	.....	.....	.....	.....
6.35	.....	1,997.57	.....	2,003.92	.....
8.92	.....	530.71	.....	539.63	.....
120.38	.....	3,708.54	.....	3,828.92	.....
.....	1.75	.....	132.93	.....	134.68
.....	16.54	.....	104.45	.....	534.54
.....	.....	.....	.....	.....	.....
35.60	.....	.....	2,557.13	.....	2,521.53
7.69	.....	463.81	.....	471.50	.....
16.47	.....	1,530.71	.....	1,547.18	.....
478.35	.....	1,511.62	.....	1,989.97	.....
8.00	.....	445.45	.....	453.45	.....
.....	.....	.....	.....	.....	.....
16.25	.....	295.14	.....	311.39	.....
1.58	.....	3,983.97	.....	3,985.55	.....
7.06	.....	892.81	.....	899.87	.....
531.86	.....	52,286.15	.....	52,818.01	.....
.....	220.33	.....	6,570.02	.....	12,298.53
.....	.....	.....	.....	.....	.....
17.15	.....	1,079.41	.....	1,096.56	.....
10.06	.....	.....	366.14	.....	356.08
9.01	.....	182.93	.....	191.94	.....
3.85	.....	344.45	.....	348.30	.....
19.84	.....	1,044.04	.....	1,063.88	.....
.....	.....	.....	.....	.....	.....
2.93	.....	.....	54.11	.....	51.18
.....	8.42	.....	654.19	.....	662.61
.....	30.98	822.59	.....	791.61	.....
.....	.....	.....	15.95	.....	10.98
4.97	.....	995.80	.....	1,043.59	.....
47.79	.....	.....	.....	.....	.....

## NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1932, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1931		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Mitchell .....	Sep., 1911	442.86			442.86
Moorefield .....	Mar., 1918		280.62	282.60	1.98
Mount Brydges .....	Mar., 1915	682.64			682.64
Newbury .....	Mar., 1921	1.97			1.97
New Hamburg .....	Mar., 1911		224.27	224.27	
New Toronto .....	Feb., 1914	5,542.34			5,542.34
Niagara Falls .....	Dec. 1915		13,666.32		
Niagara-on-the-Lake .....	Aug. 1919	555.68			555.68
Norwich .....	May 1912	274.48			274.48
Oil Springs .....	Feb., 1918		358.83	358.83	
Otterville .....	Feb., 1916	274.67			274.67
Palmerston .....	Jul., 1916		757.27		
Paris .....	Feb., 1914	1,691.93			1,691.93
Parkhill .....	May, 1920	576.61			576.61
Petrolia .....	May, 1916	2,114.50			2,114.50
Plattsville .....	Dec., 1914	470.27			470.27
Point Edward .....	Nov., 1916	2,496.57			2,496.57
Port Colborne .....	Mar., 1920		1,748.20		
Port Credit .....	Aug., 1912	291.47			291.47
Port Dalhousie .....	Nov., 1912		106.53	106.53	
Port Dover .....	Dec., 1921	408.76			408.76
Port Rowan .....	Nov., 1926	1,292.90			1,292.90
Port Stanley .....	Apr., 1912	572.69			572.69
Preston .....	Jan., 1911	5,012.97			5,012.97
Princeton .....	Jan., 1915	1,037.05			1,037.05
Queenston .....	Mar., 1921	171.70			171.70
Richmond Hill .....	Jun., 1925	1,131.43			1,131.43
Ridgetown .....	Dec., 1915	216.69			216.69
Riverside .....	Nov., 1922	1,289.52			1,289.52
Rockwood .....	Sep., 1913	620.07			620.07
Rodney .....	Feb., 1917	50.91			50.91
St. Catharines .....	Apr., 1914		5,279.45	5,279.45	
St. Clair Beach .....	Nov., 1922	185.33			185.33
St. George .....	Sept., 1915	182.78			182.78
St. Jacobs .....	Sept., 1917	196.32			196.32
St. Marys .....	May, 1911	3,402.67			3,402.67
St. Thomas .....	Apr., 1911	8,238.13			8,238.13
Sandwich .....	Feb., 1924		2,582.35	2,582.35	
Sarnia .....	Dec., 1916	19,273.31			19,273.31
Scarboro twp. ....	Aug., 1918	8,571.91			8,571.91
Seaforth .....	Nov., 1911	408.57			408.57
Simcoe .....	Aug., 1915	3,042.73			3,042.73
Springfield .....	Aug., 1917		93.86	93.86	
Stamford twp. ....	Nov., 1916	905.28			905.28
Stouffville .....	Sep., 1923	568.75			568.75



## SYSTEM

## N.—CREDIT OR CHARGE

supplied to it to October 31, 1931, the cash receipts and payments thereon, adjustments or Charged to each municipality in respect of power supplied in the year as a Credit or Charge to each municipality at October 31, 1932

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1932		Accumulated amount standing as a credit or charge on October 31, 1932	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
8.81		1,048.73		1,057.54	
	6.08	39.48		33.40	
12.20		538.58		550.78	
0.04			149.26		149.22
	4.41	556.46		552.05	
92.07		6,656.95		6,749.02	
	546.65		16,406.72		30,619.69
10.63		57.98		68.61	
5.58			222.32		216.74
	6.51	435.33		428.82	
4.66			386.47		381.81
	30.29	511.81			275.75
29.59		2,185.82		2,215.41	
12.60		679.36		691.96	
42.75		1,317.04		1,359.79	
9.27		816.02		825.29	
45.33		2,693.66		2,738.99	
	69.93	1,618.75			199.38
5.03			252.98		247.95
	3.07	217.57		214.50	
6.66		267.54		274.20	
21.62		785.32		806.94	
11.15		1,631.70		1,642.85	
83.82			306.04		222.22
21.26		988.68		1,009.94	
2.87		102.52		105.39	
26.13		1,713.64		1,739.77	
3.77			423.35		419.58
22.69		3,178.99		3,201.68	
11.04		518.89		529.93	
1.02			436.50		435.48
	103.28		12,831.08		12,934.36
3.26		249.56		252.82	
3.22		26.20		29.42	
4.00		294.36		298.36	
56.15		2,576.15		2,632.30	
143.15		15,684.09		15,827.24	
	47.98	5,559.49		5,511.51	
320.17		23,447.00		23,767.17	
171.44		4,961.58		5,133.02	
6.88		278.45		285.33	
53.54		2,901.42		2,954.96	
	1.91		119.92		121.83
17.21			626.39		609.18
12.06		971.00		983.06	

## NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1932, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1931		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Stratford.....	Jan., 1911	22,039.10			22,039.10
Strathroy.....	Dec., 1914	2,711.87			2,711.87
Sutton.....	Aug., 1923	450.73		1.96	452.69
Tavistock.....	Nov., 1916	293.41			293.41
Tecumseh.....	Nov., 1922	80.66			80.66
Thamesford.....	Feb., 1914	344.82			344.82
Thamesville.....	Oct., 1915	451.17			451.17
Thedford.....	May, 1922		83.93	83.93	
Thorndale.....	Mar., 1914		254.54	254.54	
Thorold.....	Jan., 1921		731.97	731.97	
Tilbury.....	Apr., 1915	370.59			370.59
Tillsonburg.....	Aug., 1911	694.91			694.91
Toronto.....	Jun., 1911	375,289.75			375,289.75
Toronto twp.....	Aug., 1913	1,758.79			1,758.79
Walkerville.....	Nov., 1914	8,706.36			8,706.36
Wallaceburg.....	Feb., 1915		703.38	703.38	
Wardsville.....	Jun., 1921	298.54			298.54
Waterdown.....	Nov., 1911		326.83		
Waterford.....	Apr., 1915	815.75			815.75
Waterloo.....	Dec., 1910	3,405.73			3,405.73
Watford.....	Sep., 1917	881.34			881.34
Welland.....	Sep., 1917	1,994.39			1,994.39
Wellesley.....	Nov., 1916	176.06			176.06
West Lorne.....	Jan., 1917		756.60	756.60	
Weston.....	Jan., 1911	6,924.24			6,924.24
Wheatley.....	Feb., 1924		232.53	232.53	
Windsor.....	Oct., 1914	35,556.41			35,556.41
Woodbridge.....	Dec., 1914	7.38			7.38
Woodstock.....	Jan., 1911	7,906.51			7,906.51
Wyoming.....	Nov., 1916	102.19			102.19
York East twp.....	Jul., 1925	9,261.31			9,261.31
York North twp.....	Nov., 1923	3,230.12			3,230.12
Zurich.....	Sep., 1917	343.17			343.17
Toronto Transportation Comm...	Jan., 1927	4,425.75			4,425.75
RURAL POWER DISTRICTS*					
Acton R.P.D.....	Feb., 1928		167.87		
Ailsa Craig R.P.D.....	Sep., 1930	94.16			1.93
Alvinston R.P.D.....	Jun., 1929		141.80		
Amherstburg R.P.D.....	Nov., 1923	23,264.32			
Aylmer R.P.D.....	Nov., 1922	9,968.53			

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

SYSTEM

N.—CREDIT OR CHARGE

supplied to it to October 31, 1931, the cash receipts and payments thereon, adjustments or Charged to each municipality in respect of power supplied in the year as a Credit or Charge to each municipality at October 31, 1932

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1932		Accumulated amount standing as a credit or charge on October 31, 1932	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
376.67		24,860.19		25,236.86	
54.82		3,485.56		3,540.38	
7.83		1,273.73		1,281.56	
5.61			517.77		512.16
1.42		1,283.87		1,285.29	
6.75		444.83		451.58	
8.73			196.76		188.03
	1.95	56.07		54.12	
	5.56	170.25		164.69	
	14.00	719.82		705.82	
6.32		1,827.35		1,833.67	
13.52		1,138.46		1,151.98	
7,177.67		62,388.59		69,566.26	
29.41		1,693.86		1,723.27	
153.19		9,746.83		9,900.02	
	15.22	765.75		750.53	
5.21			152.98		147.77
	13.07	1,014.54		674.64	
14.26		636.25		650.51	
66.63		3,788.74		3,855.37	
19.52		624.67		644.19	
35.75			4,140.87		4,105.12
2.94			221.72		218.78
	18.80	68.36		49.56	
136.05		3,569.25		3,705.30	
	4.14	700.08		695.94	
590.66		38,663.62		39,254.28	
0.15		291.86		292.01	
154.67		4,973.97		5,128.64	
2.04			354.38		352.34
158.91		3,151.68		3,310.59	
56.84			818.14		761.30
5.70		536.30		542.00	
100.93		1,719.42		1,820.35	
	6.71		242.12		416.70
3.71			53.72	42.22	
	5.67		265.98		413.45
930.57		3,456.38		27,651.27	
398.74		2,855.50		13,222.77	



## NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1932, and the accumulated amount standing

Rural power districts	Date commenced operating	Net credit or charge at October 31, 1931		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Ayr R.P.D.	Jul., 1926	1,708.22			
Baden R.P.D.	Sept., 1922		562.37		
Beamsville R.P.D.	Jan., 1923	35,638.54			
Belle River R.P.D.	Dec., 1922	26,949.51			
Blenheim R.P.D.	Jul., 1924	13,139.96			
Bond Lake R.P.D.	Mar., 1924	44,956.05			
Bothwell R.P.D.	Dec., 1923	7,503.96			
Brampton R.P.D.	Nov., 1923	1,801.15			
Brant R.P.D.	Oct., 1922	592.23			
Brigden R.P.D.	Jan., 1927		2,034.60		
Burford R.P.D.	Dec., 1926	3,515.26			
Caledonia R.P.D.	Oct., 1925		683.34		19.67
Chatham R.P.D.	May, 1922	15,999.21			
Chippawa R.P.D.	Jul., 1922	2,563.21			
Clinton R.P.D.	Jul., 1928		1,157.00		
Delaware R.P.D.	Oct., 1922	2,483.22			
Dorchester R.P.D.	Dec., 1921		835.51		
Dresden R.P.D.	May, 1928	48.26			
Drumbo R.P.D.	Aug., 1922	1,805.95			
Dundas R.P.D.	Jan., 1922	16,867.29			88.17
Dunnville R.P.D.	Jul., 1928		1,293.93		
Dutton R.P.D.	Feb., 1926	1,724.84			
Elmira R.P.D.	Jun., 1926		364.33		
Elora R.P.D.	Jan., 1926	788.76			42.68
Essex R.P.D.	Nov., 1924	13,395.05			
Exeter R.P.D.	Nov., 1922	12,347.26			
Forest R.P.D.	Nov., 1926	590.64			65.50
Galt R.P.D.	Oct., 1922	2,408.49			
Georgetown R.P.D.	Nov., 1924	3,509.58			
Goderich R.P.D.	Jun., 1925	267.89			
Grantham R.P.D.	Nov., 1924	535.04			
Guelph R.P.D.	Jan., 1925		4,508.73		
Haldimand R.P.D.	Oct., 1925	5,801.94			1,272.06
Harriston R.P.D.	Dec., 1929		506.45		
Harrow R.P.D.	Nov., 1923	11,197.69			
Ingersoll R.P.D.	Oct., 1922	3,851.29			71.19
Jordan R.P.D.	May, 1922	9,617.74			4.14
Keswick R.P.D.	Mar., 1924		4,599.27		
Kingsville R.P.D.	Nov., 1923	30,965.15			9.00
Listowel R.P.D.	Oct., 1926	1,650.60			
London R.P.D.	Nov., 1922	17,079.61		95.00	15.24
Lucan R.P.D.	Jun., 1926	228.02			

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

## SYSTEM

## N.—CREDIT OR CHARGE

supplied to it to October 31, 1931, the cash receipts and payments thereon, adjustments or Charged to each municipality in respect of power supplied in the year as a Credit or Charge to each municipality at October 31, 1932

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1932		Accumulated amount standing as a credit or charge on October 31, 1932	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
68.33			847.05	929.50	
	22.49		2,033.15		2,618.01
1,425.54		5,842.57		42,906.65	
1,077.98		3,095.53		31,123.02	
525.60		2,124.54		15,790.10	
1,798.24		1,409.56		48,163.85	
300.16			935.93	6,868.19	
72.05			953.51	919.69	
23.69			3,666.78		3,050.86
	81.38		1,148.24		3,264.22
140.61			1,043.35	2,612.52	
	27.99		1,880.19		2,611.19
639.97		1,118.68		17,757.86	
102.53		665.52		3,331.26	
	46.28		717.83		1,921.11
99.33		1,020.04		3,602.59	
	33.42		992.66		1,861.59
1.93			355.60		305.41
72.24			687.25	1,190.94	
674.69		2,506.13		19,959.94	
	51.76		1,379.85		2,725.54
68.99			2,487.18		693.35
	14.57		1,201.57		1,580.47
30.27			1,406.23		629.88
535.80		3,939.34		17,870.19	
493.89			114.73	12,726.42	
21.66			781.94		235.14
96.34		224.68		2,729.51	
140.38			1,164.72	2,485.24	
10.72			2,221.31		1,942.70
21.40		527.28		1,083.72	
	180.35		2,635.20		7,324.28
210.88			607.99	4,132.77	
	20.26		714.30		1,241.01
447.91		4,616.72		16,262.32	
153.81			6,126.45		2,192.54
384.65		2,620.89		12,619.14	
	183.97		1,997.98		6,781.22
1,238.33		2,417.84		34,612.32	
66.02			1,128.77	587.85	
684.42			59.28	17,784.51	
9.12			535.27		298.13

## NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1932, and the accumulated amount standing

Rural power districts	Date commenced operating	Net credit or charge at October 31, 1931		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Lynden R.P.D.	Feb., 1922	978.46			
Markham R.P.D.	Dec., 1922	20,200.58			
Merlin R.P.D.	Nov., 1928		1,489.72		
Milton R.P.D.	Jan., 1925	5,777.39			
Milverton R.P.D.	Aug., 1927		2,875.58		
Mitchell R.P.D.	Dec., 1925	2,393.51			
Newmarket R.P.D.	Mar., 1924	6,242.40			
Niagara R.P.D.	Jan., 1922	20,323.68			102.45
Norwich R.P.D.	May, 1925	9,775.93			12.35
Oil Springs R.P.D.	Dec., 1925	2,548.69			
Palmerston R.P.D.	Oct., 1926		1,951.93		21.19
Petrolia R.P.D.	Aug., 1923		230.64		
Preston R.P.D.	Apr., 1922	8,818.01			259.97
Ridgetown R.P.D.	Mar., 1922	3,830.82			
St. Jacobs R.P.D.	Nov., 1922	4,676.42			407.40
St. Marys R.P.D.	Dec., 1927		6,158.89		
St. Thomas R.P.D.	Aug., 1923	15,234.06		63.27	
Saltfleet R.P.D.	Feb., 1922		3,323.23		218.92
Sandwich R.P.D.	Jul., 1922	56,981.51			
Sarnia R.P.D.	Jun., 1923	10,801.70			
Scarboro R.P.D.	Dec., 1923	18,034.73			
Seaforth R.P.D.	Nov., 1927		456.72		
Simcoe R.P.D.	Nov., 1922	3,491.06			
Stamford R.P.D.	Mar., 1922	8,043.28			46.67
Stratford R.P.D.	Jul., 1924	1,028.63			12.15
Strathroy R.P.D.	Dec., 1926	855.47			
Streetsville R.P.D.	Nov., 1922	18,413.96			
Tavistock R.P.D.	Apr., 1923		3,304.50		
Thamesville R.P.D.	Nov., 1927	1,697.30			
Tilbury R.P.D.	Dec., 1923	4,258.54			
Tillsonburg R.P.D.	Dec., 1923	8,154.40			
Wallaceburg R.P.D.	Jan., 1923	8,940.29			
Walsingham R.P.D.	Dec., 1926	1,983.69			
Walton R.P.D.	Nov. 1924	1,886.14			
Waterdown R.P.D.	Oct., 1922	30,333.47			
Waterford R.P.D.	Nov., 1923		1,253.68		
Watford R.P.D.	Dec., 1929		278.50		
Welland R.P.D.	Apr., 1922	37,988.31			1,017.62
Woodbridge R.P.D.	Jan., 1923	11,989.09			
Woodstock R.P.D.	Feb., 1922	12,332.33			
Totals		1,371,226.81	92,879.58	31,477.64	712,315.99

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.



## SYSTEM

## N.—CREDIT OR CHARGE

supplied to it to October 31, 1931, the cash receipts and payments thereon, adjustments or Charged to each municipality in respect of power supplied in the year as a Credit or Charge to each municipality at October 31, 1932

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1932		Accumulated amount standing as a credit or charge on October 31, 1932	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
39.14			923.91	93.69	
808.02		5,573.47		26,582.07	
	59.59		2,100.18		3,649.49
231.10			224.53	5,783.96	
	115.02		1,135.67		4,126.27
95.74			807.75	1,681.50	
249.70			665.45	5,826.65	
812.27		973.53		22,007.03	
390.83			2,527.63	7,626.78	
101.95		122.29		2,772.93	
	78.14		1,664.22		3,715.48
	9.22		294.74		534.60
348.44		253.68		9,160.16	
153.23			1,800.85	2,183.20	
177.52			703.53	3,743.01	
	246.36		1,360.68		7,765.93
610.64		1,653.86		17,561.83	
	134.07	5,622.03		1,945.81	
2,279.26		2,361.64		61,622.41	
432.07		1,839.18		13,072.95	
721.39		5,538.43		24,294.55	
	18.27	116.94			358.05
139.64			319.41	3,311.29	
321.42			256.89	8,061.14	
40.74			849.91	207.31	
34.22			1,398.17		508.48
736.56		121.04		19,271.56	
	132.18		2,531.23		5,967.91
67.89			552.72	1,212.47	
170.34		578.20		5,007.08	
326.18			1,526.81	6,953.77	
357.61		213.59		9,511.49	
79.35		992.13		3,055.17	
75.45		511.82		2,473.41	
1,213.34		10,389.35		41,936.16	
	50.15	565.05			738.78
	11.14		57.22		346.86
1,509.38		4,710.16		43,190.23	
479.56		3,146.37		15,615.02	
493.29			1,063.73	11,761.89	
39,610.86	3,262.70	477,338.93	247,831.94	1,139,553.57	276,189.54

## NIAGARA SYSTEM

## Reserve for Renewals—October 31, 1932

Total provision for renewals to October 31, 1931.....	\$16,018,453.96	
Deduct:		
Expenditures to October 31, 1931.....	1,231,438.07	
Balance brought forward October 31, 1931.....		\$14,787,015.89
Added during the year ending October 31, 1932:		
Amounts charged to municipalities as part of the cost of power delivered to them.....	\$1,020,710.98	
Amounts included in costs of distribution of power within rural power districts.....	236,925.30	
Provision against equipment employed in respect of contracts with private companies which purchased power and against equipment in local distribution systems.....	322,065.22	
Reserve provided in respect of lines transferred to certain rural power districts from power properties.....	2,224.83	
Interest at 4% per annum on the monthly balances at the credit of the account.....	591,480.64	
		2,173,406.97
Deduct:		\$16,960,422.86
Provision for renewals on lines and equipment sold to sundry municipalities.....	\$1,406.89	
Provision for renewals to October 31, 1931, in respect of Scott Street Steam Plant property which is now disposed of.....	124,544.42	
Expenditures during the year ending October 31, 1932.....	204,579.02	
		330,530.33
Balance carried forward October 31, 1932.....		\$16,629,892.53

## NIAGARA SYSTEM

## Reserve for Obsolescence and Contingencies—October 31, 1932

Balance brought forward October 31, 1931.....	\$14,629,578.26	
Amount provided to October 31, 1931, in respect of properties known as the "Dominion Power Properties".....		115,697.72
Added during the year ending October 31, 1932:		
Amounts included in the costs of distribution of power within rural power districts.....	118,462.65	
Interest at 4% per annum on monthly balances at the credit of the account.....	585,183.13	
		703,645.78
Deduct:		\$15,448,921.76
Contingencies met with during the year incidental to plant operations.....	\$61,428.13	
Cost to the Commission (including provisions for Sinking Fund \$503,451.13 and Renewals \$322,065.22) of power delivered to private companies and customers under flat rate contracts in excess of the revenue received from them.....	1,949,367.83	
Commission's share of American exchange paid during the year by the Province of Ontario on the transfer of funds to New York to meet capital retirements.....	\$514,185.18	
NOTE:—Above amount is exclusive of American exchange on interest coupons.		
Less—Profit on English exchange in connection with the transfer of funds to London to retire debenture stock.....	112,075.20	
		402,109.98
Amount appropriated from the Contingency Reserve and applied proportionately to each municipality in reduction of the cost of delivery of power thereto.....	595,280.80	
		3,008,186.74
Balance carried forward October 31, 1932.....		\$12,440,735.02

## NIAGARA SYSTEM

## SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds provided out of other revenues of the system and interest allowed thereon to October 31, 1932

Municipality	Period of years ending Oct. 31, 1932	Amount	Municipality	Period of years ending Oct. 31, 1932	Amount
		\$ c.			\$ c.
Acton.....	15 years	30,489.17	Elmira.....	14 years	43,020.82
Agincourt.....	8 "	4,431.65	Elora.....	13 "	20,786.44
Ailsa Craig.....	12 "	8,769.61	Embro.....	13 "	5,897.84
Alvinston.....	9 "	8,603.59	Erieau.....	9 "	2,478.25
Amherstburg.....	15 "	24,324.08	Erie Beach.....	8 "	643.18
Ancaster twp.....	9 "	7,212.25	Essex.....	9 "	13,873.16
Arkona.....	6 "	2,479.38	Etobicoke twp.....	10 "	79,546.25
Aylmer.....	9 "	20,336.07	Exeter.....	11 "	20,912.33
Ayr.....	13 "	7,296.42	Fergus.....	13 "	25,281.78
Baden.....	15 "	17,660.88	Fonthill.....	7 "	2,351.03
Beachville.....	15 "	21,529.77	Forest.....	10 "	14,707.04
Belle River.....	10 "	4,555.41	Galt.....	16 "	284,752.36
Blenheim.....	12 "	19,103.52	Georgetown.....	14 "	49,924.77
Blyth.....	9 "	4,300.59	Glencoe.....	9 "	9,481.57
Bolton.....	12 "	9,735.02	Goderich.....	13 "	63,694.65
Bothwell.....	12 "	10,281.55	Granton.....	11 "	4,319.34
Brampton.....	16 "	83,343.96	Guelph.....	16 "	333,433.78
Brantford.....	13 "	422,457.46	Hagersville.....	14 "	43,449.04
Brantford twp.....	9 "	13,452.30	Hamilton.....	16 "	1,870,477.61
Bridgeport.....	5 "	2,140.43	Harriston.....	11 "	17,138.78
Brigden.....	10 "	6,369.01	Harrow.....	9 "	9,485.41
Brussels.....	9 "	6,152.76	Hensall.....	11 "	7,598.95
Burford.....	12 "	6,884.05	Hespeler.....	16 "	49,551.83
Burgessville.....	11 "	2,885.11	Highgate.....	11 "	5,394.17
Caledonia.....	15 "	11,031.56	Humberstone.....	9 "	8,380.37
Campbellville.....	8 "	731.40	Ingersoll.....	16 "	94,747.96
Cayuga.....	8 "	3,963.76	Jarvis.....	9 "	6,899.05
Chatham.....	12 "	201,478.05	Kingsville.....	9 "	18,769.21
Chippawa.....	10 "	8,793.10	Kitchener.....	16 "	634,997.65
Clifford.....	9 "	2,953.16	Lambeth.....	12 "	4,709.82
Clinton.....	13 "	23,720.24	LaSalle.....	7 "	5,938.03
Comber.....	12 "	10,263.00	Leamington.....	9 "	32,975.35
Cottam.....	6 "	1,581.57	Listowel.....	11 "	36,411.85
Courtright.....	9 "	2,702.70	London.....	16 "	1,145,236.95
Dashwood.....	10 "	4,499.23	London Ry. Comm..	13 "	77,605.15
Delaware.....	12 "	1,426.14	London twp.....	8 "	6,575.78
Dorchester.....	13 "	3,550.96	Long Branch.....	2 "	3,978.05
Drayton.....	9 "	6,029.19	Lucan.....	12 "	10,418.84
Dresden.....	12 "	16,065.52	Lynden.....	12 "	7,840.67
Drumbo.....	13 "	3,272.85	Markham.....	9 "	8,075.72
Dublin.....	10 "	3,030.15	Merlin.....	9 "	6,558.84
Dundas.....	16 "	75,080.63	Merritton.....	11 "	42,913.51
Dunnville.....	9 "	28,253.22	Milton.....	14 "	57,948.39
Dutton.....	12 "	9,972.54	Milverton.....	11 "	25,455.10
East Windsor.....	10 "	112,802.85	Mimico.....	15 "	65,893.56



## NIAGARA SYSTEM

## SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds provided out of other revenues of the system and interest allowed thereon to October 31, 1932

Municipality	Period of years ending Oct. 31, 1932	Amount	Municipality	Period of years ending Oct. 31, 1932	Amount
		\$ c.			\$ c.
Mitchell.....	16 years	22,789.60	Stratford.....	16 years	307,773.52
Moorefield.....	9 "	3,195.47	Strathroy.....	13 "	42,752.87
Mount Brydges....	12 "	3,501.49	Sutton.....	9 "	6,040.27
Newbury.....	9 "	2,160.36	Tavistock.....	11 "	21,646.60
New Hamburg.....	16 "	26,269.83	Tecumseh.....	10 "	11,721.69
New Toronto.....	13 "	210,186.51	Thamesford.....	13 "	8,670.56
Niagara Falls.....	12 "	290,121.85	Thamesville.....	12 "	8,597.77
Niagara-on-Lake....	9 "	14,392.79	Thedford.....	9 "	4,202.55
Norwich.....	15 "	19,548.29	Thorndale.....	13 "	4,719.84
Oil Springs.....	9 "	13,428.18	Thorold.....	10 "	39,415.26
Otterville.....	11 "	4,083.16	Tilbury.....	12 "	22,403.90
Palmerston.....	11 "	21,508.88	Tillsonburg.....	16 "	43,328.89
Paris.....	13 "	59,170.72	Toronto.....	16 "	9,145,449.91
Parkhill.....	9 "	8,982.90	Toronto twp.....	14 "	42,166.16
Petrolia.....	11 "	52,566.01	Walkerville.....	13 "	320,310.18
Plattsville.....	13 "	4,623.71	Wallaceburg.....	12 "	92,757.37
Point Edward.....	10 "	22,811.04	Wardsville.....	9 "	1,637.38
Port Colborne.....	11 "	43,497.80	Waterdown.....	16 "	12,178.89
Port Credit.....	15 "	17,251.94	Waterford.....	12 "	15,561.36
Port Dalhousie.....	11 "	14,732.08	Waterloo.....	16 "	128,459.61
Port Dover.....	9 "	11,079.28	Watford.....	10 "	10,416.65
Port Rowan.....	6 "	2,906.24	Welland.....	10 "	133,600.76
Port Stanley.....	15 "	19,896.18	Wellesley.....	11 "	9,055.32
Preston.....	16 "	142,339.91	West Lorne.....	11 "	15,679.40
Princeton.....	13 "	3,897.53	Weston.....	16 "	113,783.85
Queenston.....	9 "	3,341.19	Wheatley.....	9 "	5,501.81
Richmond Hill.....	8 "	6,992.50	Windsor.....	13 "	951,295.58
Ridgetown.....	12 "	20,709.01	Woodbridge.....	13 "	14,439.00
Riverside.....	10 "	37,317.94	Woodstock.....	16 "	188,447.32
Rockwood.....	14 "	5,752.36	Wyoming.....	11 "	3,989.73
Rodney.....	10 "	6,130.67	York East twp.....	8 "	97,749.41
St. Catharines.....	11 "	259,563.60	York North twp....	9 "	39,473.44
St. Clair Beach.....	10 "	3,163.72	Zurich.....	10 "	6,865.12
St. George.....	12 "	6,845.74	Toronto Trans. Com.	11 "	124,434.31
St. Jacobs.....	10 "	7,153.62	Sandwich, Windsor &	10 "	88,826.48
St. Marys.....	16 "	69,654.68	Amherstburg Ry. Co.		
St. Thomas.....	16 "	237,830.74	Windsor, Essex &		
Sandwich.....	9 "	111,044.97	Lake Shore Railway		
Sarnia.....	11 "	290,686.22	Association.....	3 "	8,849.94
Scarboro twp.....	9 "	72,344.99			
Seaforth.....	16 "	34,414.01			
Simcoe.....	12 "	42,800.62			
Springfield.....	10 "	4,749.92			
Stamford Twp.....	11 "	42,365.49			
Stouffville.....	9 "	6,715.70			

## NIAGARA SYSTEM

## SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds provided out of other revenues of the system and interest allowed thereon to October 31, 1932

Rural power district*	Period of years ending Oct. 31, 1932	Amount	Rural power district	Period of years ending Oct. 31, 1932	Amount
		\$ c.			\$ c.
Acton R.P.D.....	5 years	280.20	London R.P.D.....	10 years	45,532.01
Ailsa Craig R.P.D.....	3 "	92.72	Lucan R.P.D.....	7 "	2,713.54
Alvinston R.P.D.....	4 "	139.27	Lynden R.P.D.....	11 "	7,162.84
Amherstburg R.P.D.....	9 "	22,078.67	Markham R.P.D.....	10 "	11,560.13
Aylmer R.P.D.....	11 "	10,525.32	Merlin R.P.D.....	4 "	4,470.64
Ayr R.P.D.....	7 "	1,216.20	Milton R.P.D.....	8 "	4,134.77
Baden R.P.D.....	11 "	9,957.94	Milverton R.P.D.....	6 "	1,880.96
Beamsville R.P.D.....	10 "	31,037.44	Mitchell R.P.D.....	7 "	5,826.71
Belle River R.P.D.....	10 "	10,605.30	Newmarket R.P.D.....	9 "	7,440.46
Blenheim R.P.D.....	9 "	5,140.80	Niagara R.P.D.....	11 "	16,973.36
Bond Lake R.P.D.....	9 "	22,645.89	Norwich R.P.D.....	8 "	14,410.58
Bothwell R.P.D.....	9 "	4,744.96	Oil Springs R.P.D.....	7 "	2,068.17
Brampton R.P.D.....	9 "	3,763.13	Palmerston R.P.D.....	6 "	929.00
Brant R.P.D.....	11 "	13,180.46	Petrolia R.P.D.....	10 "	1,030.55
Brigden R.P.D.....	6 "	2,148.61	Preston R.P.D.....	11 "	27,925.17
Burford R.P.D.....	6 "	3,679.43	Ridgetown R.P.D.....	11 "	13,726.33
Caledonia R.P.D.....	8 "	7,305.11	St. Jacobs R.P.D.....	10 "	8,752.07
Chatham R.P.D.....	11 "	15,592.13	St. Marys R.P.D.....	5 "	6,576.47
Chippawa R.P.D.....	11 "	5,490.47	St. Thomas R.P.D.....	10 "	19,243.26
Clinton R.P.D.....	5 "	3,760.67	Saltfleet R.P.D.....	11 "	33,162.83
Delaware R.P.D.....	10 "	12,088.62	Sandwich R.P.D.....	11 "	39,633.76
Dorchester R.P.D.....	11 "	17,252.09	Sarnia R.P.D.....	10 "	19,118.36
Dresden R.P.D.....	5 "	770.69	Scarboro R.P.D.....	9 "	7,953.21
Drumbo R.P.D.....	11 "	4,974.45	Seaforth R.P.D.....	5 "	1,465.96
Dundas R.P.D.....	11 "	16,343.73	Simcoe R.P.D.....	10 "	5,606.21
Dunnville R.P.D.....	5 "	542.81	Stamford R.P.D.....	11 "	5,128.02
Dutton R.P.D.....	7 "	2,841.74	Stratford R.P.D.....	9 "	7,380.20
Elmira R.P.D.....	7 "	1,327.82	Strathroy R.P.D.....	6 "	2,596.27
Elora R.P.D.....	7 "	4,015.70	Streetsville R.P.D.....	10 "	10,739.23
Essex R.P.D.....	8 "	8,295.56	Tavistock R.P.D.....	10 "	5,831.50
Exeter R.P.D.....	10 "	10,461.99	Thamesville R.P.D.....	5 "	3,090.37
Forest R.P.D.....	6 "	1,109.92	Tilbury R.P.D.....	9 "	3,895.08
Galt R.P.D.....	11 "	4,954.61	Tillsonburg R.P.D.....	9 "	17,069.65
Georgetown R.P.D.....	8 "	3,704.89	Wallaceburg R.P.D.....	10 "	10,090.06
Goderich R.P.D.....	8 "	2,856.98	Walsingham R.P.D.....	6 "	4,358.11
Grantham R.P.D.....	8 "	17,590.37	Walton R.P.D.....	8 "	3,288.80
Guelph R.P.D.....	8 "	7,620.88	Waterdown R.P.D.....	10 "	14,254.75
Haldimand R.P.D.....	8 "	4,149.53	Waterford R.P.D.....	9 "	4,557.53
Harriston R.P.D.....	3 "	444.43	Watford R.P.D.....	3 "	497.25
Harrow R.P.D.....	9 "	9,706.77	Welland R.P.D.....	11 "	44,801.45
Ingersoll R.P.D.....	11 "	10,423.09	Woodbridge R.P.D.....	10 "	23,541.42
Jordan R.P.D.....	11 "	6,544.19	Woodstock R.P.D.....	11 "	20,737.88
Keswick R.P.D.....	9 "	11,444.82	Total.....		\$21,808,954.04
Kingsville R.P.D.....	9 "	28,079.12			
Listowel R.P.D.....	6 "	3,621.37			

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

# NIAGARA SYSTEM

## Reserve for Sinking Fund—October 31, 1932

Total provision for sinking fund to October 31, 1931.....		\$19,068,293.89
Provided in the year ending October 31, 1932, in respect of:		
Advances by the Province for construction of transmission lines and stations.....	\$586,315.51	
Advances by the Province for construction of rural power districts.....	63,315.62	
Advances by the Province for construction of pipe line to Ontario Power generating station.....	36,923.85	
Advances by the Province for construction of Queenston-Chippawa development.....	809,645.73	
Bonds issued and assumed by the Commission in connection with the purchase of the properties of the Ontario Power Company, Toronto Power Company, Essex system and Thorold system.....	481,727.68	
Interest at 4% per annum on amounts standing at the credit of the reserve accounts.....	762,731.76	
		2,740,660.15
Total.....		<u>\$21,808,954.04</u>



### NIAGARA SYSTEM—RURAL LINES

Statement showing Interest, Sinking Fund, Renewals and Contingencies charged by the Commission to the Municipalities which operate the respective rural lines, for the year ending October 31, 1932

Operated by	Capital cost	Interest	Sinking fund	Renewals	Contingencies	Total interest, sinking fund, renewals and contingencies charged
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Milton.....	15,909.84	789.13	286.38	318.20	159.10	1,552.81
Welland.....	19,617.60	823.94	353.12	392.35	196.18	1,765.59
Totals.....	35,527.44	1,613.07	639.50	710.55	355.28	3,318.40

### NIAGARA SYSTEM—RURAL LINES

Statement showing the total Sinking Fund paid in respect of each line together with interest allowed thereon to October 31, 1932

Lines operated by	Period of years ending October 31, 1932	Amount
Milton.....	19 years	\$ c. 3,025.23
Welland.....	20 "	9,865.75
Total.....	.....	12,890.98

### NIAGARA SYSTEM—RURAL LINES

#### Reserve for Sinking Fund—October 31, 1932

Total provision for Sinking Fund to October 31, 1931.....	\$11,780.27
Provided in the year ending October 31, 1932.....	639.50
Interest at 4% per annum on the amount standing at the credit of the account....	471.21
Total.....	\$12,890.98

**GEORGIAN BAY**  
**Operating Account for Year**

COSTS OF OPERATION AS PROVIDED FOR UNDER THE TERMS OF THE POWER COMMISSION ACT

Power purchased.....		\$18,810.77	
Costs of operation and maintenance, including the proportion of administrative expenses chargeable to the operation of the system:			
Generation and transmission equipment.....	\$433,227.76		
Rural power districts.....	49,909.36		
			483,137.12
Interest (including exchange) on capital investment in:			
Generation and transmission equipment.....	\$377,725.15		
Rural power districts.....	34,832.21		
			412,557.36
Provision for renewal of:			
Generation and transmission equipment.....	\$98,591.83		
Rural power districts.....	26,145.83		
			124,737.66
Provision for obsolescence and contingencies in respect of:			
Generation and transmission equipment.....	\$28,083.38		
Rural power districts.....	26,145.83		
			54,229.21
Provision for sinking fund:			
By charges included in the cost of power delivered to municipalities and rural power districts.....	\$72,462.99		
By charges against contracts with private companies which purchase power.....	6,997.53		
By charges included in the cost of distribution of power within rural power districts.....	7,237.63		
			86,698.15
			<u>\$1,180,170.27</u>

**GEORGIAN BAY**

**Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual cost**

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1932	To Oct. 31 1932				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Alliston.....	60.00	60.00	93,402.39	221.2	156.99	5,169.38	4,668.86
Arthur.....	75.00	75.00	68,037.34	119.3	84.67	4,915.51	3,386.81
Barrie.....	32.00	36.00	594,521.13	2,346.8	1,665.57	33,086.74	29,699.40
Beaverton.....	37.00	43.00	61,438.70	212.7	150.96	3,914.23	3,038.85
Beeton.....	75.00	75.00	63,314.31	118.6	84.17	3,671.99	3,172.55
Bradford.....	65.00	70.00	62,075.58	129.8	92.12	3,877.38	3,090.52
Brechin.....	55.00	58.00	18,870.22	50.4	35.77	1,132.17	927.79
Cannington.....	40.00	45.00	46,609.23	157.8	112.00	3,121.12	2,306.89
Chatsworth.....	45.00	45.00	14,971.18	47.9	34.00	1,027.40	745.12
Chesley.....	43.00	40.00	135,131.13	479.6	340.37	7,389.23	6,728.77
Coldwater.....	36.00	39.00	65,511.77	240.2	170.47	3,499.55	3,275.03
Collingwood.....	40.00	40.00	403,989.45	1,409.2	1,000.14	23,190.44	19,978.65
Cookstown.....	60.00	60.00	20,238.23	52.2	37.05	1,243.35	1,010.11
Creemore.....	55.00	55.00	44,697.20	114.6	81.33	2,502.56	2,232.36
Dundalk.....	37.00	42.00	43,903.30	157.8	112.00	3,014.22	2,172.58

## SYSTEM

Ending October 31, 1932

## REVENUE FOR PERIOD

Collected from municipalities.....	\$866,152.47
Power sold to private companies.....	79,960.71
Collected from customers in rural power districts.....	215,718.07
	<u>\$1,161,831.25</u>

## Add:

Amounts due by certain municipalities, being the difference between the sums paid and the cost of power supplied to them in the year.....	\$15,057.46
Amounts due by municipalities comprising certain rural power districts, being the difference between the revenue collected from customers therein and the cost of power supplied to them in the year.....	31,902.47
	<u>46,959.93</u>
	<u>\$1,208,791.18</u>

## Deduct:

Amounts collected from certain municipalities in excess of the sums required to be paid by them for power supplied in the year.....	\$25,603.65
Amounts collected from customers in certain rural power districts in excess of the cost of power delivered thereto.....	3,017.26
	<u>28,620.91</u>

Revenue.....	<u>\$1,180,170.27</u>
	<u>\$1,180,170.27</u>

## SYSTEM

## G.B.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1932

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,402.31	310.09	981.89	125.07	12,814.59	14,130.23	1,315.64	.....
1,109.55	219.52	715.55	67.45	10,499.06	8,948.09	.....	1,550.97
6,957.07	2,236.01	6,247.10	1,326.83	81,218.70	82,733.03	1,514.33	.....
780.97	228.31	645.40	120.26	8,878.98	9,486.86	607.88	.....
1,021.93	203.76	668.64	67.05	8,890.09	9,456.88	566.79	.....
968.20	206.98	652.69	73.39	8,961.28	9,558.63	597.35	.....
271.29	68.93	198.33	28.50	2,662.78	2,904.85	242.07	.....
599.96	171.78	489.64	89.22	6,890.61	7,391.24	500.63	.....
198.54	59.96	157.28	27.08	2,249.38	2,156.96	.....	92.42
1,690.62	520.24	1,418.23	271.15	18,358.61	20,606.93	2,248.32	.....
804.48	253.57	688.05	135.80	8,826.95	9,373.88	546.93	.....
5,112.66	1,489.04	4,243.57	796.71	55,811.21	56,666.96	855.75	.....
294.86	74.76	212.72	29.52	2,902.37	3,158.76	256.39	.....
655.21	159.15	471.17	64.79	6,166.57	6,695.87	529.30	.....
540.43	165.36	458.30	89.22	6,552.11	6,470.34	.....	81.77



## GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1932	To Oct. 31 1932				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Durham.....	33.00	42.00	89,094.94	295.8	209.94	6,378.77	4,401.34
Elmvale.....	38.00	43.00	41,907.65	148.8	105.61	2,810.96	2,069.25
Elmwood.....	48.00	53.00	18,433.16	61.6	43.72	1,222.25	923.46
Flesherton.....	43.00	45.00	25,589.31	80.4	57.06	1,981.00	1,275.13
Grand Valley.....	58.00	58.00	46,789.45	107.6	76.37	3,149.57	2,332.99
Gravenhurst.....	24.00	24.00	116,960.73	578.8	410.79	6,794.58	5,861.23
Hanover.....	35.00	35.00	252,025.81	980.8	696.09	14,249.88	12,794.14
Holstein.....	90.00	90.00	14,772.62	18.2	12.92	1,152.76	736.47
Huntsville.....	26.00	26.00	175,266.16	1,053.8	156.49	13,178.67	8,713.65
Kincardine.....	60.00	58.00	173,437.88	399.6	283.60	8,382.00	8,680.64
Kirkfield.....	60.00	60.00	14,029.33	28.1	19.94	746.07	700.39
Lucknow.....	65.00	63.00	86,688.18	184.5	130.94	4,635.57	4,339.74
Markdale.....	36.00	40.00	40,527.99	148.5	105.39	2,639.41	2,023.46
Meaford.....	40.00	46.00	136,632.82	401.4	284.88	7,040.94	6,850.74
Midland.....	30.00	35.00	729,376.54	2,937.9	2,085.08	39,029.70	36,186.23
Mount Forest.....	40.00	48.00	110,636.02	321.3	228.03	8,544.19	5,513.58
Neustadt.....	70.00	70.00	30,878.17	33.1	23.49	1,119.52	1,544.04
Orangeville.....	45.00	45.00	186,487.08	543.0	385.38	10,835.63	9,326.66
Owen Sound.....	30.00	36.00	843,588.84	3,337.5	2,368.68	47,712.19	42,122.72
Paisley.....	58.00	55.00	52,318.13	108.5	77.00	2,886.88	2,621.01
Penetanguishene.....	35.00	40.00	166,491.92	568.4	403.40	8,378.69	8,218.27
Port Elgin.....	40.00	40.00	62,763.25	211.9	150.39	3,600.27	3,170.33
Port McNicoll.....	33.00	38.00	26,250.01	95.9	68.06	1,960.54	1,293.79
Port Perry.....	50.00	50.00	74,937.32	196.7	139.60	4,119.75	3,753.19
Priceville.....	85.00	85.00	8,004.72	15.1	10.72	637.02	401.09
Ripley.....	80.00	80.00	32,785.30	54.7	38.82	1,832.31	1,628.48
Rosseau.....	127.00	127.00	29,171.13	29.7	21.07	1,102.61	1,474.30
Shelburne.....	41.00	46.00	63,222.28	202.4	143.65	4,014.84	3,143.87
Southampton.....	40.00	40.00	59,097.75	217.2	154.15	3,907.73	2,983.51
Stayner.....	44.00	44.00	61,075.66	207.8	147.48	3,688.82	3,055.86
Sunderland.....	55.00	60.00	25,676.91	60.0	42.58	1,693.10	1,264.51
Tara.....	55.00	53.00	26,632.32	76.7	54.44	1,609.62	1,321.75
Teeswater.....	58.00	58.00	45,699.93	103.0	73.10	2,522.33	2,279.78
Thornton.....	85.00	85.00	10,572.28	20.0	14.19	575.52	525.55
Tottenham.....	96.00	92.00	41,905.81	61.0	43.29	2,486.50	2,092.75
Uxbridge.....	55.00	55.00	83,151.15	207.3	147.12	4,441.39	4,167.15
Victoria Harbour.....	40.00	46.00	21,673.06	68.3	48.47	1,419.92	1,076.58
Walkerton.....	35.00	38.00	116,965.86	437.4	310.42	6,614.89	5,899.50
Waubashene.....	43.00	44.00	12,198.46	44.5	31.58	861.92	605.69
Warton.....	75.00	65.00	113,089.99	221.8	157.42	5,896.60	5,719.78
Windermere.....	100.00	100.00	15,755.37	28.9	20.51	898.48	794.74
Wingham.....	60.00	60.00	125,019.41	251.6	178.57	5,738.33	6,233.37
Woodville.....	53.00	56.00	23,247.12	56.7	40.24	1,426.94	1,141.02

## SYSTEM

G.B.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1932

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,156.24	338.41	934.49	167.23	13,586.42	11,948.18		1,638.24
524.85	161.86	440.18	84.13	6,196.84	6,650.12	453.28	
239.56	74.68	193.97	34.83	2,732.47	3,383.09	650.62	
309.75	92.95	268.86	45.46	4,030.21	3,821.16		209.05
709.22	159.96	491.89	60.84	6,980.84	6,239.81		741.03
1,124.57	463.62	1,229.44	327.24	16,211.47	13,891.64		2,319.83
3,095.22	1,024.71	2,709.66	554.52	35,124.22	34,357.42		766.80
256.90	43.26	155.30	10.29	2,367.90	1,645.22		722.68
1,979.45	670.36	1,843.72	595.79	27,138.13	29,054.42	1,916.29	
2,624.97	580.43	1,822.07	225.92	22,599.63	24,812.75	2,213.12	
221.20	46.77	147.41	15.89	1,897.67	1,686.50		211.17
1,344.45	291.76	911.01	104.31	11,757.78	12,425.26	667.48	
462.75	149.76	425.66	83.96	5,890.39	5,830.89		59.50
1,887.49	482.70	1,435.77	226.94	18,209.46	19,270.66	1,061.20	
8,401.62	2,660.63	7,658.55	1,663.02	97,684.83	100,416.25	2,731.42	
1,537.72	385.53	1,163.41	181.66	17,554.12	14,912.99		2,641.13
551.90	90.51	327.03	18.71	3,675.20	2,260.97		1,414.23
2,586.42	658.36	1,959.68	307.00	26,059.13	26,129.04	69.91	
9,842.87	3,119.72	8,857.40	1,887.94	115,911.52	116,563.81	652.29	
817.42	177.66	549.85	61.34	7,191.16	6,065.25		1,125.91
2,133.04	606.31	1,748.95	321.36	21,810.02	22,264.27	454.25	
809.09	234.79	659.32	119.80	8,743.99	9,059.19	315.20	
316.70	100.37	272.34	54.22	4,066.02	3,560.75		505.27
1,084.63	250.92	787.65	111.21	10,246.95	10,008.47		238.48
128.30	35.44	84.18	8.54	1,305.29	1,284.16		21.13
535.96	103.67	342.41	30.93	4,512.58	4,656.82	144.24	
520.06	88.30	306.52	16.80	3,529.66	3,813.30	283.64	
838.29	237.45	664.23	114.43	9,156.76	9,258.14	101.38	
724.62	228.46	620.69	122.80	8,741.96	9,224.68	482.72	
789.18	233.50	644.32	117.48	8,676.64	9,142.33	465.69	
387.22	86.61	269.94	33.92	3,777.88	3,550.16		227.72
371.10	101.05	279.84	43.37	3,781.17	4,157.43	376.26	
697.45	174.71	480.63	58.24	6,286.24	6,078.59		207.65
169.34	38.25	111.18	11.31	1,445.34	1,716.04	270.70	
709.68	130.31	440.82	34.49	5,937.84	5,655.36		282.48
1,226.59	280.07	874.07	117.20	11,253.59	11,591.89	338.30	
289.64	81.71	227.71	38.61	3,182.64	3,265.56	82.92	
1,300.80	445.33	1,227.24	247.30	16,045.48	16,424.70	379.22	
150.27	49.20	128.12	25.16	1,851.94	2,066.30	214.36	
1,794.69	369.01	1,189.14	125.40	15,252.04	15,839.17	587.13	
254.08	54.87	165.60	17.71	2,205.99	2,968.14	762.15	
1,971.41	426.31	1,315.00	142.37	16,005.36	16,114.42	109.06	
345.59	77.98	244.39	32.06	3,308.22	3,347.66	39.44	

## GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost—under received by the Commission from each Municipality on account of such cost; upon ascertainment (by annual adjustment) of the actual cost of

Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, main-tenance and administrative expenses	Interest (including exchange)
	\$ c.		\$ c.	\$ c.	\$ c.
<b>Alliston</b> R.P.D.—Essa, Tecumseth and Tossorontio twps.....	30,760.78	84.4	59.90	1,830.64	1,550.47
<b>Arthur</b> R.P.D.—Luther E. and Luther W. twps.....	1,391.50	3.2	2.28	83.89	70.09
<b>Bala</b> R.P.D.—Wood and Medora twp.	21,919.48	86.2	61.18	1,192.12	1,102.78
<b>Barrie</b> R. P. D.—Innisfil, Oro and Vespra twps.....	68,822.43	207.8	147.47	3,517.08	3,440.81
<b>Baysville</b> R.P.D.—Franklin, Macaulay, McLean, Ridout and Sherbourne twps.....	11,192.07	14.9	10.57	682.07	279.28
<b>Beaumaris</b> R.P.D.—Macaulay, Monck, and Wood and Medora twps.....	32,204.22	129.3	91.77	1,647.48	1,616.51
<b>Beaverton</b> R.P.D.—Mara and Thorah twps.....	22,765.56	72.0	51.10	1,436.60	1,125.70
<b>Beeton</b> R.P.D.—Tecumseth twp....	854.16	1.6	1.14	48.00	43.31
<b>Bradford</b> R.P.D.—Gwillimbury W., King and Tecumseth twps.....	19,907.10	40.0	28.39	1,095.99	1,003.51
<b>Bruce</b> R.P.D.—Brant, Carrick, Culross, Greenock and Saugeen twps.....	24,135.23	57.3	40.67	1,248.65	1,199.81
<b>Buckskin</b> R.P.D.—Matchedash and Wood and Medora twps.....	5,171.92	12.3	8.73	294.94	259.54
<b>Cannington No. 1</b> R.P.D.—Brock, Eldon and Mariposa twps.....	5,852.16	18.1	12.85	338.63	290.04
<b>Cannington No. 2</b> R.P.D.—Brock twp.....	6,182.65	20.3	14.41	365.77	304.74
<b>Chatsworth</b> R.P.D.—Holland twp...	4,182.23	10.2	7.24	357.54	210.63
<b>Cookstown</b> R.P.D.—Essa and Innisfil twps.....	310.16	0.8	0.57	16.25	15.66
<b>Creemore</b> R.P.D.—Nottawasaga, Osprey and Tossorontio twps.....	14,476.70	45.3	32.15	762.51	733.55
<b>Elmvale</b> R.P.D.—Flos, Medonte, Oro and Vespra twps.....	20,625.15	62.2	44.15	1,051.79	1,037.10
<b>Flesherton</b> R.P.D.—Artemesia twps..	2,128.22	7.0	4.97	117.46	105.32
<b>Georgina</b> R.P.D.—Brock and Georgina twps.....	12,612.61	42.5	30.16	887.57	630.76
<b>Gravenhurst</b> R.P.D.—Muskoka twp.	5,361.63	24.3	17.25	417.16	268.70
<b>Hawkestone</b> R.P.D.—Orillia and Oro twps.....	613.46	68.1	1,498.37	52.92	29.15
<b>Holstein</b> R.P.D.—Bentinck, Egremont and Normanby twps.....					
<b>Huntsville</b> R.P.D.—Brunel, Chaffey and Franklin twps.....	9,389.85	31.8	22.57	563.23	474.57
<b>Innisfil</b> R.P.D.—Gwillimbury W. and Innisfil twps.....	62,559.02	161.1	114.34	3,172.18	3,152.83
<b>Lucknow</b> R.P.D.—Kinloss twp.....					





## GEORGIAN BAY

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Rural power district	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.		\$ c.	\$ c.	\$ c.
<b>Mariposa</b> R.P.D.—Brock, Mariposa and Reach twps.....	45,221.89	141.1	100.14	2,333.13	2,256.40
<b>Markdale</b> R. P. D.—Artemesia, Euphrasia, Glenelg and Holland twps.	7,624.47	17.4	12.35	464.94	368.65
<b>Meaford</b> R.P.D.—St. Vincent twp....					
<b>Medonte</b> R.P.D.—Baxter and Tay twps.....	5,153.51	18.8	13.34	307.28	259.95
<b>Midland</b> R.P.D.—Tay and Tiny twps.	4,780.12	19.5	13.84	310.22	240.55
<b>Neustadt</b> R.P.D.—Bentinck twp.....					
<b>Nottawasaga</b> R.P.D.—Nottawasaga twp.....	8,792.93	29.0	20.58	478.86	432.21
<b>Orangeville</b> R.P.D.—Amaranth, Caledon, Erin and Garafraxa E. twps....	11,671.98	31.8	22.57	647.51	584.99
<b>Owen Sound</b> R.P.D.—Derby and Sydenham twps.....	2,527.61	10.0	7.10	140.90	127.61
<b>Port Perry</b> R.P.D.—Cartwright, Manvers, Reach and Scugog twps.....	40,684.17	104.7	74.31	2,365.34	2,046.55
<b>Ripley</b> R.P.D.—Huron and Kinloss twps.....	4,546.66	10.0	7.10	239.84	228.73
<b>Sauble</b> R.P.D.—Amabel and Keppel twps.....	6,202.46	11.8	8.38	340.84	314.76
<b>Shelburne</b> R.P.D.—Amaranth, Melancthon and Mulmur twps.....	7,503.19	18.8	13.34	411.83	377.17
<b>Sparrow Lake</b> R.P.D.—Matchedash, Morrison, Orillia N. and Rama twps.	28,247.75	109.1	77.43	1,382.09	1,364.12
<b>Tara</b> R.P.D.—Amabel, Arran, Derby and Keppel twps.....	17,489.25	49.9	35.42	1,043.03	876.87
<b>Thornton</b> R.P.D.—Essa twp.....	6,793.68	12.1	8.59	339.13	342.91
<b>Utterson</b> R. P. D.—Cardwell, Humphrey, Stephenson, Watt and Wood and Medora twps.....	17,062.34	43.9	31.16	744.88	860.18
<b>Uxbridge</b> R.P.D.—Brock, Georgina, Reach, Scott and Uxbridge twps....	38,005.76	93.6	66.43	2,026.86	1,910.79
<b>Wasaga Beach</b> R.P.D.—Flos, Nottawasaga and Sunnidale twps.....	45,027.88	153.2	108.73	2,395.41	2,255.12
<b>Wroxeter</b> R.P.D.—Howick, Morris and Turnberry twps.....	50,761.82	96.4	68.42	2,275.24	2,559.52
Totals—Municipalities.....	6,167,538.98	21,064.3	14,358.28	354,673.93	307,696.02
Totals—Rural power districts.....	731,515.76	2,171.8	2,991.46	39,427.80	36,351.94
Totals—Companies and distributing systems.....	682,223.31	2,058.6	1,461.03	39,126.03	33,677.19
	7,581,278.05				
Non-operating capital.....	4,521.05				
Grand totals.....	7,585,799.10	25,294.7	18,810.77	433,227.76	377,725.15

## SYSTEM

## G.B.—COST OF POWER

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1932

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
607.36	162.93	475.15	79.77	6,014.88	6,014.88	see page	205
109.30	31.61	76.96	9.84	1,073.65	1,073.65	"	"
63.49	20.79	54.13	10.63	729.61	729.61	"	"
54.54	17.44	50.19	11.03	697.81	697.81	"	"
						see page	207
114.80	33.04	92.38	16.39	1,188.26	1,188.26	"	"
166.49	42.31	122.67	17.97	1,604.51	1,604.51	"	"
29.50	9.35	26.54	5.66	346.66	346.66	"	"
593.24	137.55	427.64	59.20	5,703.83	5,703.83	"	"
69.62	15.41	47.67	5.66	614.03	614.03	"	"
99.55	22.62	65.41	6.67	858.23	858.23	"	"
110.41	28.19	78.83	10.63	1,030.40	1,030.40	"	"
316.23	107.58	286.63	61.69	3,595.77	3,595.77	"	"
244.70	70.26	183.78	28.20	2,482.26	2,482.26	"	"
110.41	25.12	71.45	6.85	904.46	904.46	"	"
248.81	62.34	179.34	24.82	2,151.53	2,151.53	"	"
563.05	128.76	399.51	52.92	5,148.32	5,148.32	"	"
581.83	172.14	475.03	86.62	6,074.88	6,074.88	"	"
812.56	177.64	533.97	54.50	6,481.85	6,481.85	"	"
79,630.36	22,475.72	64,858.20	11,913.77	855,606.28	866,152.47	25,603.65	15,057.46
10,033.74	2,694.82	7,604.79	1,227.87	100,332.42	100,332.42	.....	.....
8,927.73	2,912.84	6,997.53	(13,141.64)	79,960.71	79,960.71	.....	.....
98,591.83	28,083.38	79,460.52	.....	1,035,899.41	1,046,445.60	.....	.....



## GEORGIAN BAY SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged to annual adjustment) of the actual costs

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
<b>Alliston</b> R.P.D.—Essa, Tecumseth and Tossorontio twps. ....	\$ c. 37,937.21	\$ c. 18,717.32	\$ c. 19,219.89	\$ c. 4,356.35
<b>Arthur</b> R.P.D.—Luther E. and Luther W. twps. ....	*4,283.33	2,094.97	2,188.36	198.55
<b>Bala</b> R.P.D.—Wood and Medora twp. ....	*58,618.74	28,313.31	30,305.43	2,967.78
<b>Barrie</b> R.P.D.—Innisfil, Oro and Vespra twps. ....	120,642.23	60,321.12	60,321.11	9,148.84
<b>Baysville</b> R. P. D.—Franklin, Macaulay, McLean, Ridout and Sherbourne twps. ....	66,247.63	33,123.81	33,123.82	1,141.94
<b>Beaumaris</b> R.P.D.—Macaulay, Monck and Wood and Medora twps. ....	59,560.79	29,780.39	29,780.40	4,275.07
<b>Beaverton</b> R.P.D.—Mara and Thorah twps. ..	*31,174.42	15,362.32	15,812.10	3,263.99
<b>Beeton</b> R.P.D.—Tecumseth twp. ....	3,003.41	1,501.70	1,501.71	118.92
<b>Bradford</b> R.P.D.—Gwillimbury W., King and Tecumseth twps. ....	37,140.15	18,409.53	18,730.62	2,739.13
<b>Bruce</b> R.P.D.—Brant, Carrick, Culross, Greenock and Saugeen twps. ....	*42,270.84	20,067.57	22,203.27	3,208.91
<b>Buckskin</b> R.P.D.—Matchedash and Wood and Medora twps. ....	3,542.03	1,771.01	1,771.02	724.68
<b>Cannington No. 1</b> R.P.D.—Brock, Eldon and Mariposa twps. ....	*7,453.36	3,106.29	4,347.07	813.14
<b>Cannington No. 2</b> R.P.D.—Brock twp. ....	*11,832.14	4,919.99	6,912.15	864.92
<b>Chatsworth</b> R.P.D.—Holland twp. ....	1,426.70	713.35	713.35	705.18
<b>Cookstown</b> R.P.D.—Essa and Innisfil twps. ..	699.63	349.82	349.81	41.87
<b>Creemore</b> R.P.D.—Nottawasaga, Osprey and Tossorontio twps. ....	*45,268.22	21,971.02	23,297.20	1,955.56
<b>Elmvale</b> R.P.D.—Flos, Medonte, Oro and Vespra twps. ....	39,661.50	19,697.58	19,963.92	2,749.02
<b>Flesherton</b> R.P.D.—Artemesia twp. ....	*5,286.84	2,456.65	2,830.19	287.65
<b>Georgina</b> R.P.D.—Brock and Georgina twps. ..	22,125.49	11,062.75	11,062.74	1,915.10
<b>Gravenhurst</b> R.P.D.—Muskoka twp. ....	4,599.81	2,299.91	2,299.90	850.95
<b>Hawkestone</b> R.P.D.—Orillia and Oro twps. ...	44,199.81	22,099.90	22,099.91	1,640.70
<b>Holstein</b> R.P.D.—Bentinck, Egremont and Normandy twps. ....	1,733.23	866.62	866.61	.....
<b>Huntsville</b> R.P.D.—Brunel, Chaffey and Franklin twps. ....	36,380.03	18,190.01	18,190.02	1,335.51
<b>Innisfil</b> R.P.D.—Gwillimbury W. and Innisfil twps. ....	72,510.43	36,255.22	36,255.21	8,327.72
<b>Lucknow</b> R.P.D.—Kinloss twp. ....	632.24	316.12	316.12	.....
<b>Mariposa</b> R.P.D.—Brock, Mariposa and Reach twps. ....	74,976.42	37,488.21	37,488.21	6,014.88
<b>Markdale</b> R.P.D.—Artemesia, Euphrasia, Glenelg and Holland twps. ....	*18,116.17	8,932.01	9,184.16	1,073.65
<b>Meaford</b> R.P.D.—St. Vincent twp. ....	1,936.27	968.14	968.13	.....
<b>Medonte</b> R.P.D.—Baxter and Tay twps. ....	17,024.77	8,512.39	8,512.38	729.61
<b>Midland</b> R.P.D.—Tay and Tiny twps. ....	17,065.20	8,532.60	8,532.60	697.81

NOTE.—Items marked \* include portions of Transmission Lines aggregating \$9,267.73 used for purposes of rural power districts.

## RURAL POWER DISTRICTS

G.B.—RURAL OPERATING

District, the revenues collected from (or charged to) customers within each District, the Municipalities comprising certain other Districts upon ascertainment (by in the year ending October 31, 1932.

Distribution cost and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest (including exchange)	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,268.87	962.29	749.48	749.48	199.95	8,286.42	8,663.53	377.11	.....
190.55	110.85	85.63	85.63	23.03	694.24	612.42	.....	81.82
3,880.93	1,467.90	1,118.84	1,118.84	305.00	10,859.29	9,275.53	.....	1,583.76
5,393.91	2,860.30	2,257.63	2,257.63	594.32	22,512.63	19,513.25	.....	2,999.38
536.27	555.53	438.48	438.48	115.43	3,226.13	1,586.15	.....	1,639.98
2,954.01	1,451.41	1,145.60	1,145.60	301.58	11,273.27	11,532.16	258.89	.....
1,104.06	499.96	388.26	388.26	103.88	5,748.41	3,777.57	.....	1,970.84
84.88	60.64	47.86	47.86	12.60	372.76	230.94	.....	141.82
745.90	903.24	710.79	710.79	187.68	5,997.53	4,328.47	.....	1,669.06
1,831.39	1,050.69	754.31	754.31	218.31	7,817.92	6,581.66	.....	1,236.26
121.09	88.53	69.88	69.88	18.40	1,092.46	917.22	.....	175.24
431.21	219.01	148.05	148.05	45.51	1,804.97	1,625.28	.....	179.69
749.34	345.15	232.59	232.59	71.72	2,496.31	2,353.10	.....	143.21
90.83	36.15	28.53	28.53	7.51	896.73	866.06	.....	30.67
7.16	17.73	13.99	13.99	3.68	98.42	130.71	32.29	.....
1,168.71	918.54	705.11	705.11	190.85	5,643.88	3,937.55	.....	1,706.33
1,337.83	995.90	780.74	780.74	206.94	6,851.17	6,672.20	.....	178.97
343.23	134.07	98.35	98.35	27.85	989.50	763.35	.....	226.15
946.90	545.12	430.26	430.26	113.27	4,380.91	4,359.11	.....	21.80
100.42	107.05	84.49	84.49	22.24	1,249.64	1,191.56	.....	58.08
1,145.19	1,094.64	864.00	864.00	227.45	5,835.98	4,985.76	.....	850.22
7.55	39.56	31.25	31.25	8.23	117.84	73.78	.....	44.06
1,000.96	873.54	689.48	689.48	181.51	4,770.48	3,060.29	.....	1,710.19
2,687.08	1,695.66	1,338.38	1,338.38	352.33	15,739.55	14,742.18	.....	997.37
2.18	15.70	12.50	12.50	3.29	46.17	20.79	.....	25.38
2,552.77	1,885.78	1,488.45	1,488.45	391.83	13,822.16	14,571.55	749.39	.....
789.96	422.75	328.63	328.63	87.84	3,031.46	2,159.73	.....	871.73
12.96	43.25	34.25	34.25	9.02	133.73	74.90	.....	58.83
562.40	423.74	334.46	334.46	88.05	2,472.72	1,606.14	.....	866.58
426.59	423.07	333.93	333.93	87.91	2,303.24	2,050.05	.....	253.19

## GEORGIAN BAY SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged to annual adjustment) of the actual costs

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
<b>Neustadt</b> R.P.D.—Bentinck twp.....	1,028.18	514.09	514.09	.....
<b>Nottawasaga</b> R.P.D.—Nottawasaga twp.....	16,703.56	8,351.78	8,351.78	1,188.26
<b>Orangeville</b> R.P.D.—Amaranth, Caledon, Erin and Garafraxa E. twps.....	33,121.03	16,560.52	16,560.51	1,604.51
<b>Owen Sound</b> R.P.D.—Derby and Sydenham twps.....	5,016.36	2,508.18	2,508.18	346.66
<b>Port Perry</b> R.P.D.—Cartwright, Manvers, Reach and Scugog twps.....	71,395.52	35,697.76	35,697.76	5,703.83
<b>Ripley</b> R.P.D.—Huron and Kinloss twps....	*7,956.72	3,744.89	4,211.83	614.03
<b>Sauble</b> R.P.D.—Amabel and Keppel twps....	4,155.62	2,077.81	2,077.81	858.23
<b>Shelburne</b> R.P.D.—Amaranth, Melancthon and Mulmur twps.....	21,520.65	10,760.32	10,760.33	1,030.40
<b>Sparrow Lake</b> R.P.D.—Matchedash, Morrison, Orillia N. and Rama twp.....	73,118.17	36,559.09	36,559.08	3,595.77
<b>Tara</b> R.P.D.—Amabel, Arran, Derby and Keppel twps.....	29,136.69	14,568.34	14,568.35	2,482.26
<b>Thornton</b> R.P.D.—Essa twp.....	9,475.93	4,737.96	4,737.97	904.46
<b>Utterson</b> R. P. D.—Cardwell, Humphrey, Stephenson, Watt and Wood and Medora twps	*35,988.24	17,221.62	18,766.62	2,151.53
<b>Uxbridge</b> R.P.D.—Brock, Georgina, Reach, Scott and Uxbridge twps.....	84,229.93	42,114.97	42,114.96	5,148.32
<b>Wasaga Beach</b> R.P.D.—Flos, Nottawasaga and Sunnidale twps.....	53,587.40	.....	53,587.40	6,074.88
<b>Wroxeter</b> R.P.D.—Howick, Morris and Turnberry twps.....	74,275.26	35,757.21	38,518.05	6,481.85
	1,408,058.30	669,376.17	738,682.13	
Non-operating capital.....	3,474.23	1,737.11	1,737.12	
Totals.....	1,411,532.53	671,113.28	740,419.25	100,332.42

NOTE.—Items marked \* include portions of Transmission Lines aggregating \$9,267.73 used for purposes of rural power districts.



## RURAL POWER DISTRICTS

G.B.—RURAL OPERATING

District, the revenues collected from (or charged to) customers within each District, the Municipalities comprising certain other Districts upon ascertainment (by in the year ending October 31, 1932.

Distribution cost and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest (including exchange)	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3.12	25.55	20.25	20.25	5.33	74.50	29.06	.....	45.44
803.31	420.30	331.74	331.74	87.33	3,162.68	3,071.56	.....	91.12
542.84	781.36	616.73	616.73	162.35	4,324.52	3,357.91	.....	966.61
190.85	127.01	100.25	100.25	26.39	891.41	812.38	.....	79.03
2,277.85	1,782.22	1,406.71	1,406.71	370.32	12,947.64	11,549.70	.....	1,397.94
159.56	207.59	154.70	154.70	43.14	1,333.72	728.76	.....	604.96
484.51	103.86	81.98	81.98	21.58	1,632.14	1,271.24	.....	360.90
615.68	529.97	418.31	418.31	110.12	3,122.79	1,792.57	.....	1,330.22
2,116.65	1,724.91	1,361.47	1,361.47	358.41	10,518.68	9,181.29	.....	1,337.39
1,666.73	737.94	582.46	582.46	153.33	6,205.18	5,593.77	.....	611.41
174.64	239.82	189.29	189.29	49.83	1,747.33	1,380.95	.....	366.38
1,795.85	896.16	676.51	676.51	186.21	6,382.77	5,852.10	.....	530.67
1,435.50	2,124.97	1,677.24	1,677.24	441.53	12,504.80	10,245.63	.....	2,259.17
2,423.88	2,571.33	1,014.76	1,014.76	534.27	13,633.88	15,233.46	1,599.58	.....
2,743.26	2,311.47	1,769.23	1,769.23	480.28	15,555.32	13,354.70	.....	2,200.62
49,909.36	34,832.21	26,145.83	26,145.83	7,237.63	244,603.28	215,718.07	3,017.26	31,902.47

## GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1932, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1931		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Alliston.....	June, 1918	625.74			625.74
Arthur.....	Dec., 1916	15.03			15.03
Barrie.....	April, 1913		11,684.02		
Beaverton.....	Nov., 1914		1,310.19	1,310.19	
Beeton.....	Aug., 1918	852.13			852.13
Bradford.....	Oct., 1918		469.93	469.93	
Brechin.....	Jan., 1915		144.94	144.94	
Cannington.....	Nov., 1914		606.36	619.40	13.04
Chatsworth.....	Dec., 1915	7.71			7.71
Chesley.....	July, 1916	2,725.32			2,725.32
Coldwater.....	Mar., 1913		465.23	465.23	
Collingwood.....	Mar., 1913		385.18		
Cookstown.....	May, 1918	167.86			167.86
Creemore.....	Nov., 1914		42.02	42.02	
Dundalk.....	Dec., 1915		624.17	624.17	
Durham.....	Dec., 1915		3,516.30	3,516.30	
Elmvale.....	June, 1913		760.50	760.50	
Elmwood.....	April, 1918		227.49	227.49	
Flesherton.....	Dec., 1915		123.93	129.38	5.45
Grand Valley.....	Dec., 1916		37.64	37.64	
Gravenhurst.....	Nov., 1915	561.47			561.47
Hanover.....	Sept., 1916	886.86			886.86
Holstein.....	May, 1916		3,052.90	850.00	
Huntsville.....	Sept., 1916	96.28			96.28
Kincardine.....	Mar., 1921	2,031.62			2,031.62
Kirkfield.....	June, 1920	77.80			77.80
Lucknow.....	Jan., 1921	1,065.02			1,065.02
Markdale.....	Mar., 1916		410.71	413.22	2.51
Meaford.....	Jan., 1924		2,147.32	2,147.32	
Midland.....	July, 1911		15,237.91	7,420.50	
Mount Forest.....	Dec., 1915		2,541.58	2,987.09	445.51
Neustadt.....	Dec., 1918		3,012.87		
Orangeville.....	July, 1916		24.76	24.76	
Owen Sound.....	Dec., 1915		16,378.92	16,378.92	
Paisley.....	Sept., 1923	891.51			891.51
Penetanguishene.....	July, 1911		2,838.86	2,838.86	
Port Elgin.....	Mar., 1931		392.44	392.44	
Port McNicoll.....	Jan., 1915		472.55	472.55	
Port Perry.....	Sept., 1922		19.68	19.68	
Priceville.....	Mar., 1920	55.80			55.80
Ripley.....	Jan., 1921	147.61			147.61
Rosseau.....	July, 1931		268.53	268.53	
Shelburne.....	July, 1916		947.65	947.65	
Southampton.....	Feb., 1931	211.92			211.92
Stayner.....	Oct., 1913	453.25			453.25

## SYSTEM

G.B.—CREDIT OR CHARGE

supplied to it to October 31, 1931; the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1932.

Interest at 4 % per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1932		Accumulated amount standing as a credit or charge on October 31, 1932	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
10.39		1,315.64		1,326.03	
0.33			1,550.97		1,550.64
	467.36	1,514.33			10,637.05
	37.52	607.88		570.36	
15.18		566.79		581.97	
	8.83	597.35		588.52	
	4.44	242.07		237.63	
	20.43	500.63		480.20	
0.15			92.42		92.27
57.03		2,248.32		2,305.35	
	8.69	546.93		538.24	
	15.41	855.75		455.16	
3.36		256.39		259.75	
	1.47	529.30		527.83	
	11.87		81.77		93.64
	120.56		1,638.24		1,758.80
	14.38	453.28		438.90	
	3.70	650.62		646.92	
0.03	2.06		209.05		211.08
	0.66		741.03		741.69
9.39			2,319.83		2,310.44
15.90			766.80		750.90
	109.85		722.68		3,035.43
2.01		1,916.29		1,918.30	
42.05		2,213.12		2,255.17	
1.56			211.17		209.61
21.30		667.48		688.78	
	7.09		59.50		66.59
	42.71	1,061.20		1,018.49	
	474.23	2,731.42			5,560.22
3.55	35.74		2,641.13		2,673.32
	120.51		1,414.23		4,547.61
	0.49	69.91		69.42	
	309.67	652.29		342.62	
15.66			1,125.91		1,110.25
	52.12	454.25		402.13	
	6.82	315.20		308.38	
	11.21		505.27		516.48
	0.32		238.48		238.80
0.93			21.13		20.20
2.63		144.24		146.87	
	8.13	283.64		275.51	
	19.16	101.38		82.22	
3.98		482.72		486.70	
7.93		465.69		473.62	



## GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1932, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1931		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Sunderland.....	Nov., 1914		316.12	316.12	
Tara.....	Feb., 1918	783.41			783.41
Teeswater.....	Dec., 1920		35.39	35.39	
Thornton.....	Nov., 1918	176.07			176.07
Tottenham.....	Oct., 1918	124.45			124.45
Uxbridge.....	Sept., 1922	617.07			617.07
Victoria Harbour.....	July, 1914		408.23	408.23	
Walkerton.....	Feb., 1931		911.48	911.48	
Waubashene.....	Dec., 1914		70.90	70.90	
Warton.....	May, 1931	1,777.53			1,777.53
Windermere.....	June, 1930	93.61			93.61
Wingham.....	Dec., 1920	446.37			446.37
Woodville.....	Nov., 1914		147.90	147.90	
RURAL POWER DISTRICT*					
Alliston R.P.D.....	Nov., 1929	1,142.51			
Arthur R.P.D.....	Dec., 1929		41.20		
Bala R.P.D.....	Jan., 1930		1,515.87		
Barrie R.P.D.....	Aug., 1923		1,086.48		
Baysville R.P.D.....	July, 1932				
Beaumaris R.P.D.....	June, 1928		1,844.09		
Beaverton R.P.D.....	Aug., 1930		570.88		
Beeton R.P.D.....	Sept., 1926		35.69		
Bradford R.P.D.....	Aug., 1929		242.47		
Bruce R.P.D.....	Oct., 1931	280.91			
Buckskin R.P.D.....	July, 1928		622.62		
Cannington No. 1 R.P.D.....	May, 1924	885.88			
Cannington No. 2 R.P.D.....	May, 1924	1,100.06			
Chatsworth R.P.D.....	Dec., 1928	342.60			
Cookstown R.P.D.....	Dec., 1930	9.41			
Creemore R.P.D.....	Dec., 1930		771.72		
Elmvale R.P.D.....	Jan., 1924		201.96		
Flesherton R.P.D.....	Feb., 1922		588.24		
Georgina R.P.D.....	Oct., 1926		1,071.95		
Gravenhurst R.P.D.....	May, 1932	277.62			
Hawkestone R.P.D.....	Aug., 1930		1,745.66		
Holstein R.P.D.....	Mar., 1929		34.52		
Huntsville R.P.D.....	Aug., 1931		737.57		
Innisfil R.P.D.....	Feb., 1928		1,993.93		
Lucknow R.P.D.....	Feb., 1924		47.38		
Mariposa R.P.D.....	Sept., 1923	4,161.57			
Markdale R.P.D.....	July, 1924		472.55		
Meaford R.P.D.....	Oct., 1928		71.36		
Medonte R.P.D.....	July, 1930		237.45		
Midland R.P.D.....	Nov., 1930		614.51		
Neustadt R.P.D.....	Nov., 1926		50.38		
Nottawasaga R.P.D.....	Jan., 1922	1,088.53			
Orangeville R.P.D.....	Aug., 1927		2,404.60		
Owen Sound R.P.D.....	Mar., 1931		11.86		
Port Perry R.P.D.....	Dec., 1922		2,160.22		

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

## SYSTEM

## G.B.—CREDIT OR CHARGE

supplied to it to October 31, 1931; the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1932

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1932		Accumulated amount standing as a credit or charge on October 31, 1932	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	6.15	.....	227.72	.....	233.87
17.33	.....	376.26	.....	393.59	.....
.....	1.16	.....	207.65	.....	208.81
2.94	.....	270.70	.....	273.64	.....
2.34	.....	.....	282.48	.....	280.14
.....	.....	.....	.....	.....	.....
11.06	.....	338.30	.....	349.36	.....
.....	8.34	82.92	.....	74.58	.....
.....	18.03	379.22	.....	361.19	.....
.....	1.22	214.36	.....	213.14	.....
30.58	.....	587.13	.....	617.71	.....
.....	.....	.....	.....	.....	.....
1.98	.....	762.15	.....	764.13	.....
7.32	.....	109.06	.....	116.38	.....
.....	2.72	39.44	.....	36.72	.....
.....	.....	.....	.....	.....	.....
45.70	.....	377.11	.....	1,565.32	.....
.....	1.65	.....	81.82	.....	124.67
.....	60.63	.....	1,583.76	.....	3,160.26
.....	43.46	.....	2,999.38	.....	4,129.32
.....	.....	.....	1,639.98	.....	1,639.98
.....	.....	.....	.....	.....	.....
.....	73.76	258.89	.....	.....	1,658.96
.....	22.84	.....	1,970.84	.....	2,564.56
.....	1.43	.....	141.82	.....	178.94
.....	9.70	.....	1,669.06	.....	1,921.23
11.24	.....	.....	1,236.26	.....	944.11
.....	.....	.....	.....	.....	.....
.....	24.90	.....	175.24	.....	822.76
35.44	.....	.....	179.69	741.63	.....
44.00	.....	.....	143.21	1,000.85	.....
13.70	.....	.....	30.67	325.63	.....
0.38	.....	32.29	.....	42.08	.....
.....	.....	.....	.....	.....	.....
.....	30.87	.....	1,706.33	.....	2,508.92
.....	8.08	.....	178.97	.....	389.01
.....	23.53	.....	226.15	.....	837.92
.....	42.88	.....	21.80	.....	1,136.63
11.10	.....	.....	58.08	230.64	.....
.....	.....	.....	.....	.....	.....
.....	69.83	.....	850.22	.....	2,665.71
.....	1.38	.....	44.06	.....	79.96
.....	29.50	.....	1,710.19	.....	2,477.26
.....	79.76	.....	997.37	.....	3,071.06
.....	1.90	.....	25.38	.....	74.66
.....	.....	.....	.....	.....	.....
166.46	.....	749.39	.....	5,077.42	.....
.....	18.90	.....	871.73	.....	1,363.18
.....	2.85	.....	58.83	.....	133.04
.....	9.50	.....	866.58	.....	1,113.53
.....	24.58	.....	253.19	.....	892.28
.....	.....	.....	.....	.....	.....
.....	2.02	.....	45.44	.....	97.84
.....	.....	.....	91.12	1,040.95	.....
43.54	.....	.....	966.61	.....	3,467.39
.....	96.18	.....	79.03	.....	91.36
.....	0.47	.....	1,397.94	.....	3,644.57
.....	86.41	.....	.....	.....	.....

## GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1932, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1931		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
Ripley R.P.D.....	Feb., 1922	\$ c.	\$ c.	\$ c.	\$ c.
Sauble R.P.D.....	Oct., 1931	156.98	472.17		22.00
Shelburne R.P.D.....	Feb., 1926		516.26		
Sparrow Lake R.P.D.....	Oct., 1925	2,245.05			
Tara R.P.D.....	Jan., 1925	445.85			
Thornton R.P.D.....	Aug., 1930		372.26		
Utterson R.P.D.....	June, 1930		689.84		
Uxbridge R.P.D.....	Sept., 1925		4,335.61		
Wasaga Beach R.P.D.....	July, 1923	8,696.06			
Wroxeter R.P.D.....	Feb., 1929		2,082.21		
		35,724.47	97,678.11	45,398.73	15,379.95

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

## GEORGIAN BAY SYSTEM

## Reserve for Renewals—October 31, 1932

Total provision for renewals to October 31, 1931.....	\$1,265,956.41
Deduct:	
Expenditures to October 31, 1931.....	114,381.83
Balance brought forward October 31, 1931.....	\$1,151,574.58
Adjusting amount of renewals charged on cost of power in year ending October 31, 1931.....	5,267.40
	\$1,146,307.18
Added during the year ending October 31, 1932:	
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them.....	\$89,664.10
Amount included in costs of distribution of power within rural power districts.....	26,145.83
Provision against equipment employed in respect of contracts with private companies which purchased power, and against equipment in local distribution systems.....	8,927.73
Provision for renewals on transmission lines purchased.....	212.21
Interest at 4% per annum on monthly balances at the credit of the account.....	45,860.39
	170,810.26
	\$1,317,117.44
Deduct:	
Expenditures during the year ending October 31, 1932.....	19,058.96
Balance carried forward October 31, 1932.....	\$1,298,058.48



## SYSTEM

G.B.—CREDIT OR CHARGE

supplied to it to October 31, 1931; the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1932.

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1932		Accumulated amount standing as a credit or charge on October 31, 1932	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6.28	19.77		604.96		1,118.90
			360.90		197.64
	20.65		1,330.22		1,867.13
89.80			1,337.39	997.46	
17.83			611.41		147.73
	14.89		366.38		753.53
	27.59		530.67		1,248.10
	173.42		2,259.17		6,768.20
347.84		1,599.58		10,643.48	
	83.29		2,200.62		4,366.12
1,120.22	3,059.67	28,620.91	46,959.93	42,290.97	94,504.30

## GEORGIAN BAY SYSTEM

## Reserve for Obsolescence and Contingencies—October 31, 1932

Balance brought forward October 31, 1931.....	\$343,311.87
Added during the year ending October 31, 1932:	
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them.....	\$25,170.54
Amounts included in the costs of distribution of power within rural power districts.....	26,145.83
Provision against equipment employed in respect of contracts with private companies which purchased power and against local distribution systems.....	2,912.84
Interest at 4% per annum on monthly balances at the credit of the account.....	13,732.47
	67,961.68
	\$411,273.55
Deduct:	
Contingencies met with during the year ending October 31, 1932.....	\$4,090.21
Share of exchange paid to the Province of Ontario in respect of bonds retired in U.S.A. funds during the year.....	39,985.87
	44,076.08
Balance carried forward October 31, 1932.....	\$367,197.47

## GEORGIAN BAY SYSTEM

## SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder, as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1932

Municipality	Period of years ending Oct. 31, 1932	Amount	Municipality	Period of years ending Oct. 31, 1932	Amount
		\$ c.			\$ c.
Alliston.....	9 years	9,858.77	Waubauskene.....	13 years	1,837.30
Arthur.....	11 "	9,596.06	Wiarton.....	2 "	1,754.92
Barrie.....	14 "	63,832.24	Windsor.....	3 "	520.04
Beaverton.....	13 "	11,158.49	Wingham.....	8 "	16,204.62
Beeton.....	9 "	7,764.36	Woodville.....	13 "	5,725.22
Bradford.....	9 "	8,568.79	RURAL POWER DISTRICTS*		
Brechin.....	13 "	4,365.24	Alliston R.P.D.....	3 years	1,382.35
Cannington.....	13 "	8,245.23	Arthur R.P.D.....	3 "	89.43
Chatsworth.....	12 "	2,008.79	Bala R.P.D.....	3 "	1,313.35
Chesley.....	11 "	16,598.17	Barrie R.P.D.....	10 "	4,766.35
Coldwater.....	14 "	6,413.08	Baysville R.P.D.....	1 "	177.95
Collingwood.....	14 "	73,708.51	Beaumaris R.P.D.....	5 "	2,643.91
Cookstown.....	9 "	2,352.76	Beaverton R.P.D.....	3 "	452.99
Creemore.....	13 "	5,979.53	Beeton R.P.D.....	7 "	39.60
Dundalk.....	12 "	5,643.69	Bradford R.P.D.....	4 "	506.96
Durham.....	12 "	15,948.30	Bruce R.P.D.....	2 "	736.77
Elmvale.....	14 "	8,130.66	Buckskin R.P.D.....	5 "	406.17
Elmwood.....	9 "	1,772.52	Cannington No. 1, R.P.D.....	9 "	1,028.01
Flesherton.....	12 "	3,215.25	Cannington No. 2, R.P.D.....	9 "	1,362.37
Grand Valley.....	11 "	5,858.71	Chatsworth R.P.D.....	4 "	202.20
Gravenhurst.....	12 "	10,059.93	Cookstown R.P.D.....	2 "	14.12
Hanover.....	11 "	41,326.56	Creemore R.P.D.....	2 "	551.66
Holstein.....	11 "	1,861.02	Elmvale R.P.D.....	9 "	1,362.96
Huntsville.....	11 "	26,959.82	Flesherton R.P.D.....	11 "	406.71
Kincardine.....	8 "	15,686.70	Georgina R.P.D.....	7 "	1,331.10
Kirkfield.....	8 "	1,559.23	Gravenhurst R.P.D.....	4 "	431.02
Lucknow.....	8 "	7,910.85	Hawkestone R.P.D.....	3 "	555.49
Markdale.....	11 "	4,372.15	Holstein R.P.D.....	4 "	13.49
Meaford.....	8 "	10,755.29	Huntsville R.P.D.....	2 "	378.64
Midland.....	14 "	112,966.08	Innisfil R.P.D.....	5 "	3,476.57
Mount Forest.....	12 "	14,496.96	Lucknow R.P.D.....	7 "	25.07
Neustadt.....	9 "	4,972.87	Mariposa R.P.D.....	10 "	5,629.30
Orangeville.....	11 "	18,393.70	Markdale R.P.D.....	9 "	435.46
Owen Sound.....	12 "	88,384.18	Meaford R.P.D.....	4 "	30.26
Paisley.....	8 "	4,505.71	Medonte R.P.D.....	3 "	233.34
Penetanguishene.....	16 "	32,818.37	Midland R.P.D.....	2 "	299.10
Port Elgin.....	2 "	1,160.41	Neustadt R.P.D.....	6 "	22.43
Port McNicoll.....	13 "	2,929.42	Nottawasaga R.P.D.....	11 "	2,111.30
Port Perry.....	8 "	6,682.44	Orangeville R.P.D.....	6 "	1,131.45
Priceville.....	8 "	715.36	Owen Sound R.P.D.....	2 "	78.10
Ripley.....	8 "	3,380.80	Port Perry R.P.D.....	10 "	2,622.16
Rosseau.....	2 "	453.18	Ripley R.P.D.....	7 "	203.34
Shelburne.....	11 "	8,941.63	Sauble R.P.D.....	2 "	96.22
Southampton.....	2 "	1,258.10	Shelburne R.P.D.....	7 "	542.03
Stayner.....	14 "	7,710.78	Sparrow Lake R.P.D.....	8 "	3,063.92
Sunderland.....	13 "	5,670.65	Tara R.P.D.....	8 "	1,532.27
Tara.....	9 "	4,195.42	Thornton R.P.D.....	3 "	272.47
Teeswater.....	8 "	5,690.59	Utterson R.P.D.....	3 "	831.76
Thornton.....	9 "	1,594.64	Uxbridge R.P.D.....	8 "	2,726.84
Tottenham.....	9 "	4,927.77	Wasaga Beach R.P.D.....	10 "	5,879.82
Uxbridge.....	8 "	7,070.45	Wroxeter R.P.D.....	4 "	2,648.67
Victoria Harbour.....	13 "	3,247.21			
Walkerton.....	2 "	2,420.21			
Total.....					816,185.21

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

## GEORGIAN BAY SYSTEM

## Reserve for Sinking Fund—October 31, 1932

Total provision for sinking fund to October 31, 1931..... \$701,427.54

Provided in the year ending October 31, 1932:

By charges included in the cost of power delivered to municipalities and rural power districts.....	\$72,462.99	
By charges included in the costs of distribution of power within rural power districts.....	7,237.63	
By charges against contracts with private companies which purchased power and local distribution systems.....	6,997.53	
Interest at 4% per annum on the amount standing at the credit of the account.....	28,059.52	
		114,757.67

Total..... \$816,185.21

## GEORGIAN BAY SYSTEM—RURAL LINES

Statement showing Interest, Sinking Fund, Renewals and Contingencies charged by the Commission to the Municipalities which operate the respective Rural Lines, for the year ending October 31, 1932

Operated by	Capital cost	Interest	Sinking fund	Renewals	Contingencies	Total interest, sinking fund, renewals and contingencies charged
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Brechin.....	922.02	48.22	16.60	18.44	9.22	92.48
Flesherton.....	1,885.41	105.77	33.94	37.71	18.85	196.27
Totals.....	2,807.43	153.99	50.54	56.15	28.07	288.75

## GEORGIAN BAY SYSTEM—RURAL LINES

Statement showing the total Sinking Fund paid in respect of each line, together with interest allowed thereon to October 31, 1932

Lines operated by	Period of years ending October 31, 1932	Amount
		\$ c.
Brechin.....	14 years	276.15
Flesherton.....	15 "	489.11
Total.....		765.26

## GEORGIAN BAY SYSTEM—RURAL LINES

## Reserve for Sinking Fund—October 31, 1932

Total provision for sinking fund to October 31, 1931..... \$687.23

Provided in year ending October 31, 1932:

By charges against municipalities which operate the lines.....	\$50.54	
Interest at 4% per annum on amounts standing at the credit of the reserve accounts.....	27.49	
		78.03

Total..... \$765.26



## EASTERN ONTARIO

## Operating Account for Year

## COSTS OF OPERATION AS PROVIDED UNDER THE TERMS OF THE POWER COMMISSION ACT

Power purchased.....		\$698,627.59	
Costs of operation and maintenance, including the proportion of administrative expenses chargeable to the operation of the system:			
Generation, transmission and distribution equipment.....	\$800,233.46		
Rural power districts.....	118,744.58		
			918,978.04
Interest (including exchange) on capital investment in:			
Generation, transmission and distribution equipment.....	\$896,898.44		
Rural power districts.....	72,097.43		
			968,995.87
Provision for renewals of:			
Generation, transmission and distribution equipment.....	\$188,709.65		
Rural power districts.....	59,621.00		
			248,330.65
Provision for obsolescence and contingencies in respect of:			
Generation, transmission and distribution equipment.....	\$89,577.14		
Rural power districts.....	29,810.50		
			119,387.64
Provision for sinking funds:			
By charges included in the cost of power delivered to municipalities and rural power districts.....	\$109,178.26		
By charges against contracts with private companies which purchase power and local distribution systems.....	46,238.23		
By charges included in the cost of distribution of power within rural power districts.....	16,015.88		
			171,432.37
			<u>\$3,125,752.16</u>

SYSTEM

Ending October 31, 1932

REVENUE FOR PERIOD

Collected from municipalities.....	\$1,816,967.21	
Power sold to private companies and local distribution systems.....	917,951.34	
Collected from customers in rural power districts.....	464,258.52	
		<u>\$3,199,177.07</u>

Add:		
Amounts due by certain municipalities being the difference between the sums paid and the cost of power supplied to them in the year.....	\$19,587.58	
Amounts due by municipalities comprising certain rural power districts, being the difference between the revenue collected from customers therein and the cost of power supplied them in the year.....	26,461.72	
		<u>46,049.30</u>
		<u>\$3,245,226.37</u>

Deduct:		
Amounts collected from certain municipalities in excess of the sums required to be paid by them for power supplied in the year.....	\$60,292.86	
Amounts collected from customers in certain rural power districts in excess of the cost of power delivered thereto.....	11,058.46	
		<u>71,351.32</u>
Revenue.....		<u>\$3,173,875.05</u>

Deduct:		
Profit from power sold to local distribution systems, transferred to the credit of obsolescence and contingency reserve.....	48,122.89	
		<u><u>\$3,125,752.16</u></u>

## EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost—under the received by the Commission from each Municipality on account of such cost; pality upon ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1932	To Oct. 31 1932				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Alexandria.....	60.00	64.00	95,426.70	190.5	1,291.39	2,877.51	4,454.59
Apple Hill.....	60.00	60.00	8,887.11	27.3	185.07	455.30	415.93
Athens.....	65.00	55.00	33,498.01	85.6	580.28	1,674.18	1,588.79
Bath.....	105.00		17,330.60	23.3	157.95	519.96	824.52
Belleville.....	32.00	35.00	774,056.45	3,511.2	23,802.25	33,154.70	36,871.60
Bloomfield.....	60.00	60.00	30,605.89	78.1	529.44	1,514.09	1,427.41
Bowmanville.....	34.00	37.50	401,568.74	1,591.4	10,788.02	15,828.09	19,236.02
Brighton.....	37.00	42.50	61,115.41	236.6	1,603.90	3,346.37	2,912.93
Brockville.....	30.00	31.50	431,410.04	2,276.5	15,432.28	16,498.69	20,257.64
Cardinal.....	37.50	37.50	27,290.20	122.7	831.78	1,318.61	1,305.44
Carleton Place.....	35.00	35.00	237,582.93	1,037.0	7,029.77	7,017.73	11,211.03
Chesterville.....	40.00	44.50	55,508.78	207.5	1,406.63	2,309.72	2,561.33
Cobourg.....	33.50	37.50	261,255.38	1,078.6	7,311.78	11,110.20	12,518.83
Deseronto.....	54.00	54.00	52,027.50	145.9	989.05	2,126.55	2,477.49
Finch.....	65.00	67.00	16,811.15	36.3	246.08	577.53	793.20
Hastings.....	50.00	55.00	24,349.88	68.5	464.36	1,016.74	1,161.52
Havelock.....	45.00	47.00	65,710.75	187.5	1,271.05	2,929.40	3,111.84
Kemptville.....	40.00	42.50	68,221.92	258.8	1,754.39	2,336.25	3,222.89
Lakefield.....	46.00	46.00	67,548.84	204.9	1,389.01	3,351.99	3,207.79
Lanark.....	50.00	50.00	21,660.76	61.4	416.23	631.52	1,015.00
Lancaster.....	97.00	97.00	22,607.40	27.2	184.39	572.49	1,052.88
Lindsay.....	40.00	42.00	415,928.11	1,544.7	10,471.44	21,204.28	19,773.40
Madoc.....	44.50	49.00	43,855.30	143.7	974.14	2,026.52	2,088.33
Marmora.....	47.00	49.00	26,238.13	84.0	569.43	1,398.47	1,245.18
Martintown.....	50.00	55.00	6,780.40	22.1	149.81	450.32	318.64
Maxville.....	75.00	75.00	31,168.80	73.3	496.90	1,129.90	1,460.76
Napanee.....	36.00	37.00	218,675.12	925.2	6,271.88	9,032.47	10,425.70
Norwood.....	38.00	41.00	28,701.27	113.0	766.02	1,578.11	1,361.84
Oshawa.....	34.00	38.00	2,119,151.90	8,168.4	55,373.17	74,574.95	100,673.70
Ottawa.....	22.50	24.00	755,944.85	5,867.4	44,774.85	39,009.97	36,415.11
Ottawa.....			964.71	19,031.2	209,342.85	621.23	111.58
Perth.....	35.00	35.00	218,138.31	1,037.5	7,033.16	7,185.78	10,046.85
Peterborough.....	30.00	32.00	1,238,825.96	5,971.1	40,477.79	42,035.09	58,933.83
Pictou.....	45.00	50.00	262,314.99	762.7	5,170.30	8,239.76	12,445.45
Port Hope.....	37.00	41.50	259,003.23	1,069.0	7,246.70	13,565.62	12,344.02
Prescott.....	30.00	31.00	138,625.57	785.3	5,323.51	6,137.61	6,538.30
Richmond.....	55.00	55.00	17,525.58	44.9	402.68	500.29	807.54
Russell.....	65.00	65.00	20,253.49	45.9	311.15	872.15	951.32
Smiths Falls.....	30.00	30.00	264,021.83	1,503.5	10,192.15	9,703.23	12,465.22
Stirling.....	30.00	32.00	48,309.78	246.2	1,668.98	2,149.79	2,303.56



## SYSTEM

## E.O.—COST OF POWER

Power Commission Act—of Power supplied to it by the Commission, the amount and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1932

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
1,641.08	298.90	1,046.30	593.04	12,202.81	12,904.66	701.85	.....
139.42	31.27	99.52	84.99	1,411.50	1,652.70	241.20	.....
549.73	110.91	371.34	266.48	5,141.71	5,176.76	35.05	.....
291.25	74.48	175.64	72.53	2,116.33	2,482.80	366.47	.....
7,123.23	5,988.01	7,109.88	10,930.67	124,980.34	130,642.07	5,661.73	.....
417.21	169.33	294.39	243.13	4,595.00	5,005.98	410.98	.....
4,248.48	2,847.71	3,759.47	4,954.17	61,661.96	59,837.05	.....	1,824.91
659.76	442.48	573.74	736.56	10,275.74	10,513.70	237.96	.....
5,430.86	1,629.59	5,037.50	7,086.94	71,373.50	76,809.66	5,436.16	.....
373.51	114.45	314.05	381.98	4,639.82	4,950.09	310.27	.....
3,305.33	887.73	2,732.45	3,228.27	35,412.31	39,189.94	3,777.63	.....
818.85	201.52	629.66	645.97	8,573.68	9,724.56	1,150.88	.....
2,660.62	1,918.38	2,432.82	3,357.77	41,310.40	43,584.16	2,273.76	.....
692.53	331.08	504.22	454.20	7,575.12	8,411.39	836.27	.....
285.26	54.41	184.92	113.00	2,254.40	2,592.60	338.20	.....
324.02	145.49	236.13	213.25	3,561.51	4,021.52	460.01	.....
868.09	395.87	636.45	583.70	9,796.40	9,446.68	.....	349.72
1,003.48	247.59	775.93	805.67	10,146.20	10,944.82	798.62	.....
863.45	411.89	650.65	637.87	10,512.65	9,423.44	.....	1,089.21
345.36	76.98	240.58	191.14	2,916.81	3,306.77	389.96	.....
413.96	68.06	243.97	84.68	2,620.43	2,808.55	188.12	.....
4,650.39	2,822.72	3,926.40	4,808.79	67,657.42	64,269.32	.....	3,388.10
535.39	285.52	419.37	447.35	6,776.62	7,419.73	643.11	.....
325.01	177.15	251.49	261.50	4,228.23	4,372.90	144.67	.....
104.58	25.35	76.21	68.80	1,193.71	1,268.37	74.66	.....
520.46	100.23	344.16	228.19	4,280.60	5,837.96	1,557.36	.....
2,172.05	1,628.55	2,028.81	2,880.23	34,439.69	36,716.31	2,276.62	.....
305.16	211.33	268.78	351.78	4,843.02	4,893.12	50.10	.....
22,961.49	14,700.19	19,904.72	25,428.94	313,617.16	304,428.59	.....	9,188.57
6,881.20	3,166.88	9,236.87	18,265.73	157,750.61	156,062.67	.....	1,687.94
47.08	8.29	24.79	.....	210,155.82	210,155.82	.....	.....
2,798.59	807.38	2,466.13	3,229.83	33,567.72	37,043.74	3,476.02	.....
10,569.35	9,613.80	11,277.89	18,588.55	191,496.30	204,543.00	13,046.70	.....
3,432.90	1,543.65	2,537.16	2,374.35	35,743.57	40,258.98	4,515.41	.....
2,638.39	1,897.40	2,411.93	3,327.89	43,431.95	43,491.47	59.52	.....
1,669.56	538.59	1,630.40	2,444.70	24,282.67	24,698.35	415.68	.....
286.44	53.69	187.18	118.30	2,356.12	2,614.17	258.05	.....
340.62	66.08	223.26	142.89	2,907.47	3,193.86	286.39	.....
3,183.47	1,047.14	3,114.64	4,680.53	44,386.38	48,726.79	4,340.41	.....
377.97	390.15	434.57	766.44	8,091.46	8,416.44	324.98	.....

## EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost—under the received by the Commission from each Municipality on account of such cost; pality upon ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1932	To Oct. 31 1932				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.	\$ c.	\$ c.		\$ c.	\$ c.	\$ c.
Trenton.....	26.50	28.50	486,025.33	2,612.2	17,707.97	16,364.57	23,365.32
Tweed.....	54.00	58.00	64,173.41	162.9	1,104.29	4,403.75	3,056.55
Warkworth.....	50.00	50.00	19,501.32	61.2	414.87	1,244.13	919.93
Wellington.....	45.00	46.00	56,074.43	180.3	1,222.24	2,404.91	2,664.96
Westport.....	92.84	92.84	36,769.49	59.0	399.96	1,015.24	1,831.73
Whitby.....	35.00	37.00	243,270.23	943.3	6,394.58	7,967.56	11,567.16
Williamsburg.....	42.00	43.00	16,158.48	75.3	510.46	986.01	710.10
Winchester.....	40.00	41.00	53,972.41	223.5	1,515.10	2,543.57	2,503.29
RURAL POWER DISTRICTS							
<b>Alexandria</b> R.P.D.—Hawkesbury E. and Lochiel twps.....			14,977.75	28.9	195.91	443.90	711.11
<b>Arnprior</b> R.P.D.—Fitzroy twp.....					1,339.00		
<b>Belleville</b> R.P.D.—Huntingdon, Sidney, Thurlow and Tyendinaga twps.....			62,421.44	278.0	1,884.55	2,492.35	2,953.84
<b>Bowmanville</b> R.P.D.—Darlington twp.....			26,539.60	102.7	696.20	1,027.17	1,265.91
<b>Brighton</b> R.P.D.—Brighton, Cramahe and Murray twps.....			5,889.41	22.8	154.56	303.61	280.88
<b>Brockville</b> R.P.D.—Augusta, Elizabethtown, Escott Front, Leeds and Lansdowne Front, Leeds and Lansdowne Rear, Yonge Front and Yonge and Escott Rear twps.....			57,103.51	252.4	1,711.01	2,172.47	2,697.73
<b>Campbellford</b> R.P.D.—Rawdon and Seymour twps.....			12,394.50	60.2	408.09	384.48	587.55
<b>Carleton Place</b> R.P.D.—Ramsay twp.....					27.57		
<b>Chesterville</b> R.P.D.—Cambridge, Finch, Osnabruck, Russell, Williamsburg and Winchester twps....			56,406.10	176.1	1,193.77	1,877.83	2,667.71
<b>Cobourg</b> R.P.D.—Alnwick, Haldimand, Hamilton and Hope twps..			54,947.43	212.6	1,441.21	2,109.41	2,602.81
<b>Colborne</b> R.P.D.—Cramahe and Haldimand twps.....			23,494.68	83.9	568.75	704.69	1,090.84
<b>Fenelon Falls</b> R.P.D.—Bexley, Fenelon, Laxton, Digby, Longford and Somerville twps.....			9,461.44	34.5	233.87	482.06	452.40
<b>Iroquois</b> R.P.D.—Gower S., Matilda, Mountain, Oxford, Williamsburg and Winchester twps.....			56,037.99	371.9	2,521.09	2,225.43	2,686.37
<b>Kemptville</b> R.P.D.—Oxford twp...			4,947.56	17.5	118.63	147.13	236.53

## SYSTEM

## E.O.—COST OF POWER

Power Commission Act—of Power supplied to it by the Commission, the amount and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1932

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
3,509.93	4,051.46	4,347.32	8,132.01	77,478.58	79,905.92	2,427.34	.....
896.09	354.35	627.65	507.12	10,949.80	9,961.17	.....	988.63
241.92	122.59	185.93	190.52	3,319.89	3,109.40	.....	210.49
692.81	353.83	537.27	561.29	8,437.31	8,888.31	451.00	.....
686.87	129.57	418.09	183.67	4,665.13	5,480.38	815.25	.....
2,623.44	1,653.63	2,283.79	2,936.57	35,426.73	34,566.72	.....	860.01
194.54	60.47	174.47	234.42	2,870.47	3,434.46	563.99	.....
754.73	205.21	611.21	695.77	8,828.88	9,779.36	950.48	.....
258.97	47.85	164.00	89.97	1,911.71	1,911.71	see page	227
.....	.....	.....	.....	1,339.00	1,339.00	"	"
581.28	478.29	572.02	865.43	9,827.76	9,827.76	"	"
286.66	186.90	249.19	319.71	4,031.74	4,031.74	"	"
63.58	42.64	55.29	70.98	971.54	971.54	"	"
787.57	213.17	656.15	785.74	9,023.84	9,023.84	"	"
104.77	99.52	112.76	187.41	1,884.58	1,884.58	"	"
.....	.....	.....	.....	27.57	27.57	"	"
880.13	199.20	631.87	548.22	7,998.73	7,998.73	"	"
593.47	395.13	515.88	661.85	8,319.76	8,319.76	"	"
259.48	162.94	216.89	261.19	3,264.78	3,264.78	"	"
107.32	63.48	89.50	107.40	1,536.03	1,536.03	"	"
598.57	216.83	670.98	1,157.76	10,077.03	10,077.03	"	"
74.54	18.41	55.99	54.48	705.71	705.71	"	"



## EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost—under the received by the Commission from each Municipality on account of such cost; pality upon ascertainment (by annual adjustment) of the actual cost

Rural Power Districts	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, main-tenance and adminis-trative expenses	Interest (including exchange)
	\$ c.		\$ c.	\$ c.	\$ c.
<b>Kingston R.P.D.</b> —Bedford, Ernestown, Hinchinbrooke, Kingston, Leeds and Lansdowne Front, Loughborough, Pittsburg and Portland twps.....	71,425.53	261.2	2,764.16	2,417.95	3,401.88
<b>Lakefield R.P.D.</b> —Burleigh and Anstruther, Douro, Harvey and Smith twps.....	5,923.21	19.0	128.80	194.30	262.70
<b>Lindsay R.P.D.</b> —Fenelon and Ops twps.....	3,477.41	10.5	71.18	159.88	165.90
<b>Martintown R. P. D.</b> —Charlottenburg and Lancaster twps.....	14,347.80	47.7	323.36	864.95	665.76
<b>Maxville R.P.D.</b> —Caledonia, Kenyon, Plantagenet N., Plantagenet S. and Roxborough twps.....	43,978.21	137.7	933.46	1,355.85	2,084.81
<b>Millbrook R.P.D.</b> —Cavan, Manvers and Monaghan S. twps.....	10,949.17	32.7	221.67	525.58	520.90
<b>Napanee R.P.D.</b> —Camden E., Ernestown, Hungerford, Fredericksburg N., Fredericksburg S., Portland, Richmond, Sheffield and Tyendinaga twps.....	51,694.06	174.6	1,183.61	2,144.61	2,460.74
<b>Nepean R.P.D.</b> —Clarence, Cumberland, Gloucester, Goulburn, Gower N., March, Nepean and Osgoode twps.....	72,487.77	559.0	5,159.10	4,990.48	3,322.71
<b>Newcastle R.P.D.</b> —Clark, Darlington and Manvers twps.....	16,895.05	57.3	388.43	601.56	802.58
<b>North Bay R.P.D.</b> —West Ferris and Widdifield twps.....	35,120.58	86.4	2.55	2,069.33	1,653.72
<b>Norwood R.P.D.</b> —Asphodel, Belmont & Methuen, Dummer and Seymour twps.....	6,221.96	19.0	128.80	256.84	295.42
<b>Omeme R.P.D.</b> —Emily and Ops twps.....	1,059.11	3.0	20.34	102.96	48.83
<b>Oshawa R.P.D.</b> —Darlington, Pickering, Whitby and Whitby E. twps.....	163,911.03	622.3	4,218.54	6,604.90	7,736.39
<b>Perth R.P.D.</b> —Bathurst, Burgess N., Elmsley N. and Elmsley S. twps.....	4,872.44	21.8	147.78	299.66	227.07
<b>Peterborough R. P. D.</b> —Cavan, Douro, Monaghan N., Monaghan S., Otonabee and Smith twps....	97,172.60	443.9	3,009.18	3,650.47	4,609.77
<b>Powassan R.P.D.</b> —Himsworth S. twp.....	770.44	2.1	0.06	37.73	36.27

SYSTEM

E.O.—COST OF POWER

Power Commission Act—of Power supplied to it by the Commission, the amount and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1932

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
808.86	490.00	675.80	813.14	11,371.79	11,371.79	see page	227
64.85	35.51	52.32	59.15	797.63	797.63	"	"
44.60	22.40	33.53	32.69	530.18	530.18	"	"
219.99	54.17	161.46	148.49	2,438.18	2,438.18	"	"
686.22	153.49	493.05	428.67	6,135.55	6,135.55	"	"
141.18	70.66	105.62	101.80	1,687.41	1,687.41	"	"
618.69	345.94	492.80	543.55	7,789.94	7,789.94	see page	229
746.35	299.93	835.66	1,440.43	16,794.66	16,794.66	"	"
201.69	114.90	161.02	178.38	2,448.56	2,448.56	"	"
392.78	133.75	.....	.....	4,252.13	4,252.13	"	"
79.22	40.16	59.89	59.14	919.47	919.47	"	"
13.39	6.61	9.92	9.34	211.39	211.39	"	"
1,778.96	1,120.28	1,532.04	1,937.27	24,928.38	24,928.38	"	"
64.11	18.30	54.61	67.87	879.40	879.40	"	"
887.27	740.04	891.87	1,381.90	15,170.50	15,170.50	"	"
8.13	2.97	.....	.....	85.16	85.16	"	"

## EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost—under the received by the Commission from each Municipality on account of such cost; pality upon ascertainment (by annual adjustment) of the actual cost

Rural Power Districts	Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating, maintenance and administrative expenses	Interest (including exchange)
	\$ c.		\$ c.	\$ c.	\$ c.
<b>Prescott</b> R. P. D.—Augusta, Edwardsburg and Matilda twps. ....	20,024.92	103.6	888.84	1,029.30	933.22
<b>Renfrew</b> R.P.D.—Admaston and Horton twps. ....			330.00		
<b>Smiths Falls</b> R.P.D.—Bastard & Burgess S., Crosby S., Kitley, Montague and Wolford twps. ....	41,209.02	158.3	1,073.11	1,482.88	2,127.63
<b>Stirling</b> R.P.D.—Rawden and Sidney twps. ....	9,216.83	43.2	292.85	479.34	437.80
<b>Trenton</b> R.P.D.—Brighton, Murray and Sidney twps. ....	25,803.39	124.1	841.26	1,030.74	1,233.99
<b>Warkworth</b> R.P.D.—Percy twp. ....	705.69	3.0	20.34	44.08	33.54
<b>Wellington</b> R.P.D.—Ameliasburg, Athol, Hallowell, Hillier and Murray twps. ....	52,115.58	171.3	1,161.23	2,336.45	2,478.52
<b>Williamsburg</b> R.P.D.—Matilda and Williamsburg twps. ....	6,025.61	38.7	543.82	493.81	267.25
Totals—Municipalities. ....	9,864,846.87	63,213.6	513,951.48	389,512.90	468,958.04
Totals—Rural Power Districts. ....	1,140,028.82	4,781.9	36,346.68	47,544.18	54,041.08
Totals—Companies. ....	5,434,387.31	20,128.4	136,449.40	216,913.56	272,568.33
Totals—Public Utilities owned by the Commission. ....	2,071,443.51	4,825.1	11,880.03	146,262.82	101,330.99
	18,510,706.51				
Campbellford Pulp Mill. ....	52,559.93				
Non-operating capital. ....	13,874.53				
Grand totals. ....	18,577,140.97	92,949.0	698,627.59	800,233.46	896,898.44



SYSTEM

E.O.—COST OF POWER

Power Commission Act—of Power supplied to it by the Commission, the amount and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1932

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
255.00	79.81	233.38	322.51	3,742.06	3,742.06	see page	229
.....	.....	.....	.....	330.00	330.00	"	"
672.95	187.84	505.77	492.80	6,542.98	6,542.98	"	"
81.13	72.16	84.05	134.49	1,581.82	1,581.82	"	"
221.02	206.19	235.11	386.32	4,154.63	4,154.63	"	"
6.98	5.40	6.54	9.34	126.22	126.22	"	"
635.01	341.19	498.23	533.27	7,983.90	7,983.90	"	"
75.07	22.94	64.97	82.81	1,550.67	1,550.67	"	"
105,855.91	62,461.33	98,000.10	137,522.17	1,776,261.93	1,816,967.21	60,292.86	19,587.58
13,299.79	6,689.00	11,178.16	14,273.50	183,372.39	183,372.39	.....	.....
44,522.38	14,221.73	42,699.86	(152,549.67)	574,825.59	574,825.59	.....	.....
25,031.57	6,205.08	3,538.37	754.00	295,002.86	343,125.75	48,122.89	*.....
188,709.65	89,577.14	155,416.49	.....	2,829,462.77	2,918,290.94	.....	.....

\*Transferred to credit of obsolescence and contingencies reserve.

## EASTERN ONTARIO SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Govern- ment grant	Com- mission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
<b>Alexandria</b> R.P.D.—Hawkesbury E. and Lochiel twps.....	26,951.93	13,475.97	13,475.96	1,911.71
<b>Arnprior</b> R.P.D.—Fitzroy twp.....	12,569.60	6,041.45	6,528.15	1,339.00
<b>Belleville</b> R. P. D.—Huntingdon, Sidney, Thurlow and Tyendinaga twps.....	149,157.08	73,902.72	75,254.36	9,827.76
<b>Bowmanville</b> R.P.D.—Darlington twp....	41,019.40	20,509.70	20,509.70	4,031.74
<b>Brighton</b> R.P.D.—Brighton, Cramahe and Murray twps.....	14,571.51	7,285.76	7,285.75	971.54
<b>Brockville</b> R.P.D.—Augusta, Elizabethtown, Escott Front, Leeds & Lansdowne Front, Leeds & Lansdowne Rear, Yonge Front and Yonge & Escott Rear twps.....	*213,900.21	104,274.89	109,625.32	9,023.84
<b>Campbellford</b> R.P.D.—Rawdon and Sey- mour twps.....	*34,586.24	17,267.28	17,318.96	1,884.58
<b>Carleton Place</b> R.P.D.—Ramsay twp.....	887.71	443.86	443.85	27.57
<b>Chesterville</b> R.P.D.—Cambridge, Finch, Os- nabruck, Russell, Williamsburg and Win- chester twps.....	*93,440.21	45,077.07	48,363.14	7,998.73
<b>Cobourg</b> R. P. D.—Alnwick, Haldimand, Hamilton and Hope twps.....	177,740.35	88,133.96	89,606.39	8,319.76
<b>Colborne</b> R.P.D.—Cramahe and Haldimand twps.....	50,124.26	25,062.13	25,062.13	3,264.78
<b>Fenelon Falls</b> R. P. D.—Bexley, Fenelon, Laxton, Digby, Longford and Somerville twps.....	39,642.93	19,483.25	20,159.68	1,536.03
<b>Iroquois</b> R.P.D.—Gower S., Matilda, Moun- tain, Oxford, Williamsburg and Winchester twps.....	171,942.27	85,674.13	86,268.14	10,077.03
<b>Kemptville</b> R.P.D.—Oxford twp.....	11,388.48	5,547.41	5,841.07	705.71
<b>Kingston</b> R. P. D.—Bedford, Ernestown, Hinchinbrooke, Kingston, Leeds & Lans- downe Front, Loughborough, Pittsburg and Portland twps.....	238,666.45	115,330.17	123,336.28	11,371.79
<b>Lakefield</b> R.P.D.—Burleigh and Anstruther, Douro, Harvey and Smith twps.....	*42,732.64	21,255.64	21,477.00	797.63
<b>Lindsay</b> R.P.D.—Fenelon and Ops twps....	22,991.62	11,495.81	11,495.81	530.18
<b>Martintown</b> R.P.D.—Charlottenburg and Lancaster twps.....	53,473.24	26,736.62	26,736.62	2,438.18
<b>Maxville</b> R.P.D.—Caledonia, Kenyon, Plan- tagenet N., Plantagenet S. and Roxborough twps.....	118,584.27	59,292.13	59,292.14	6,135.55
<b>Millbrook</b> R.P.D.—Cavan, Manvers and Monaghan S. twps.....	29,033.30	14,232.75	14,800.55	1,687.41

NOTE.—Items marked \* include portions of transmission lines aggregating \$22,909.93 used for purposes of rural power districts.

## RURAL POWER DISTRICTS

E.O.—RURAL OPERATING

District, the revenues collected from (or charged to) customers within each District, to the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1932

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest (including exchange)	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
856.97	624.85	527.26	263.63	138.80	4,323.22	3,757.84	.....	565.38
899.30	248.32	208.99	104.49	55.22	2,855.32	2,493.18	.....	362.14
5,969.88	3,460.49	2,893.96	1,446.98	768.70	24,367.77	26,322.68	1,954.91	.....
876.12	954.07	805.07	402.53	211.93	7,281.46	7,591.68	310.22	.....
498.99	341.29	287.99	143.99	75.81	2,319.61	2,289.06	.....	30.55
9,003.85	4,984.87	4,105.50	2,052.74	1,107.32	30,278.12	31,387.93	1,109.81	.....
749.39	820.97	691.72	345.86	182.36	4,674.88	4,347.69	.....	327.19
43.19	15.78	13.32	6.66	3.51	110.03	54.66	.....	55.37
5,274.28	2,265.59	1,846.04	923.01	503.27	18,810.92	16,566.53	.....	2,244.39
4,852.57	4,072.80	3,407.27	1,703.63	904.71	23,260.74	22,914.72	.....	346.02
2,019.18	1,007.59	850.23	425.11	223.82	7,790.71	6,214.55	.....	1,576.16
1,235.68	940.72	780.28	390.13	208.97	5,091.81	4,646.88	.....	444.93
6,785.53	3,912.70	3,289.74	1,644.87	869.16	26,579.03	27,735.41	1,156.38	.....
339.23	275.29	226.42	113.22	61.15	1,721.02	1,786.13	65.11	.....
11,589.75	5,408.96	4,306.88	2,153.44	1,201.54	36,032.36	32,024.91	.....	4,007.45
983.09	882.05	739.87	369.93	195.93	3,968.50	2,851.74	.....	1,116.76
384.42	315.60	266.31	133.16	70.11	1,693.78	1,269.72	.....	430.06
2,118.96	1,241.89	1,047.94	523.97	275.87	7,646.81	6,620.49	.....	1,026.32
4,466.92	2,791.43	2,355.47	1,177.74	620.08	17,547.19	17,209.39	.....	337.80
946.96	638.20	527.17	263.59	141.77	4,205.10	3,732.75	.....	472.35



## EASTERN ONTARIO SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged (by annual adjustment) of the actual costs

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
<b>Napanee</b> R.P.D.—Camden E., Ernestown, Hungerford, Fredericksburg N., Fredericksburg S., Portland, Richmond, Sheffield and Tyendinaga twps.....	*202,491.61	98,365.99	104,125.62	7,789.94
<b>Nepean</b> R. P. D.—Clarence, Cumberland, Gloucester, Goulburn, Gower N., March, Nepean and Osgoode twps.....	*320,738.38	156,384.44	164,353.94	16,794.66
<b>Newcastle</b> R.P.D.—Clark, Darlington and Manvers twps.....	*38,135.45	18,137.01	19,998.44	2,448.56
<b>North Bay</b> R.P.D.—West Ferris and Widdifield twps.....	30,043.54	14,670.24	15,373.30	4,252.13
<b>Norwood</b> R.P.D.—Asphodel, Belmont and Methuen, Dummer and Seymour twps.....	*18,097.96	8,818.01	9,279.95	919.47
<b>Omemee</b> R.P.D.—Emily and Ops twps....	3,613.10	1,806.55	1,806.55	211.39
<b>Oshawa</b> R. P. D.—Darlington, Pickering, Whitby and Whitby E. twps.....	262,066.32	127,443.48	134,622.84	24,928.38
<b>Perth</b> R.P.D.—Bathurst, Burgess N., Elmsley N. and Elmsley S. twps.....	27,968.74	13,984.37	13,984.37	879.40
<b>Peterborough</b> R.P.D.—Cavan, Douro, Monaghan N., Monaghan S., Otonabee and Smith twps.....	169,047.13	84,523.57	84,523.56	15,170.50
<b>Powassan</b> R.P.D.—Himsworth S. twp.....	3,897.55	1,948.77	1,948.78	85.16
<b>Prescott</b> R. P. D.—Augusta, Edwardsburg and Matilda twps.....	75,255.57	37,446.69	37,808.88	3,742.06
<b>Renfrew</b> R.P.D.—Admaston and Horton twps.....	7,862.98	3,931.49	3,931.49	330.00
<b>Smiths Falls</b> R.P.D.—Bastard & Burgess S., Crosby S., Kitley, Montague and Wolford twps.....	*116,399.05	56,211.55	60,187.50	6,542.98
<b>Stirling</b> R.P.D.—Rawdon and Sidney twps.	*51,230.43	22,727.16	28,503.27	1,581.82
<b>Trenton</b> R.P.D.—Brighton, Murray and Sidney twps.....	*73,790.89	36,802.06	36,988.83	4,154.63
<b>Warkworth</b> R.P.D.—Percy twp.....	*1,598.38	612.42	985.96	126.22
<b>Wellington</b> R. P. D.—Ameliasburg, Athol, Hallowell, Hillier and Murray twps.....	167,328.24	83,372.10	83,956.14	7,983.90
<b>Williamsburg</b> R. P. D.—Matilda and Williamsburg twps.....	26,747.83	13,373.91	13,373.92	1,550.67
	3,139,716.85	1,541,082.51	1,598,634.34	
Non-operating capital.....	7,013.62	3,506.81	3,506.81	
Totals.....	3,146,730.47	1,544,589.32	1,602,141.15	183,372.39

NOTE.—Items marked \* include portions of transmission lines aggregating \$22,909.93 used for purposes of rural power districts.

## RURAL POWER DISTRICTS

E.O.—RURAL OPERATING

District, the revenues collected from (or charged to) customers within each District, to the Municipalities comprising certain other Districts upon ascertainment in the year ending October 31, 1932

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest (including exchange)	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
5,721.98	4,477.97	3,651.09	1,825.54	994.71	24,461.23	19,846.18	.....	4,615.05
11,524.19	7,595.97	6,258.66	3,129.34	1,687.34	46,990.16	46,211.83	.....	778.33
1,110.61	936.06	752.64	376.32	207.94	5,832.13	6,151.64	319.51	.....
2,211.83	691.05	570.23	285.12	153.82	8,164.18	9,635.69	1,471.51	.....
547.28	430.31	353.87	176.93	95.58	2,523.44	2,033.32	.....	490.12
9.59	85.64	72.27	36.13	19.02	434.04	260.62	.....	173.42
12,526.39	5,902.72	4,854.46	2,427.24	1,311.21	51,950.40	55,223.31	3,272.91	.....
716.13	600.25	506.50	253.25	133.34	3,088.87	1,678.81	.....	1,410.06
5,810.65	3,913.49	3,302.29	1,651.15	869.33	30,717.41	31,993.60	1,276.19	.....
44.53	83.09	70.11	35.06	18.46	336.41	377.46	41.05	.....
3,609.83	1,730.87	1,453.30	726.65	384.49	11,647.20	11,530.44	.....	116.76
181.40	181.35	153.19	76.59	40.33	962.86	582.38	.....	380.48
5,669.09	2,633.74	2,143.59	1,071.79	585.05	18,646.24	17,734.65	.....	911.59
942.62	1,333.63	1,009.82	504.92	296.25	5,669.06	5,002.30	.....	666.76
2,099.33	1,739.44	1,464.04	732.03	386.40	10,575.87	10,601.72	25.85	.....
25.86	46.29	31.78	15.89	10.28	256.32	311.33	55.01	.....
4,985.77	3,950.46	3,321.81	1,660.91	877.54	22,780.39	19,615.80	.....	3,164.59
1,113.24	561.64	473.92	236.96	124.76	4,061.19	3,649.50	.....	411.69
118,744.58	72,097.43	59,621.00	29,810.50	16,015.88	479,661.78	464,258.52	11,058.46	26,461.72

## EASTERN ONTARIO

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1932, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1931		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Alexandria.....	Jan., 1921		410.81	410.81	
Apple Hill.....	Apr., 1921	105.50			105.50
Athens.....	Jan., 1929	1,734.24			1,734.24
Bath.....	Nov., 1931				
Belleville.....	Apr., 1929	1,885.16			1,885.16
Bloomfield.....	Apr., 1919	277.37			277.37
Bowmanville.....	Oct., 1931				
Brighton.....	Nov., 1929		946.76	946.76	
Brockville.....	Apr., 1915	1,138.24			1,138.24
Cardinal.....	Jul., 1930	242.92			242.92
Carleton Place.....	May, 1919	4,446.05			4,446.05
Chesterville.....	Apr., 1914		537.79	537.79	
Cobourg.....	Jan., 1932				
Deseronto.....	Jan., 1931	696.94			696.94
Finch.....	Feb., 1928		2.77	2.77	
Hastings.....	Jun., 1931		613.17	613.17	
Havelock.....	Feb., 1921	63.10			63.10
Kemptville.....	Dec., 1921		78.86	78.86	
Lakefield.....	Aug., 1920	1,355.96			1,355.96
Lanark.....	Sep., 1921	274.14			274.14
Lancaster.....	May, 1921		6,595.56	895.56	
Lindsay.....	Mar., 1928	597.65			597.65
Madoc.....	Jan., 1930		370.97	370.97	
Marmora.....	Jan., 1921	42.84			42.84
Martintown.....	May, 1921		56.00	56.00	
Maxville.....	Feb., 1921	1,095.14			1,095.14
Napanee.....	Nov., 1929	1,060.99			1,060.99
Norwood.....	Feb., 1921		82.97	82.97	
Oshawa.....	Feb., 1929		18,804.34	18,804.34	
Ottawa.....	Jan., 1914	5,202.08			5,202.08
Perth.....	Feb., 1919	5,424.09			5,424.09
Peterborough.....	Mar., 1913	4,527.53			4,527.53
Picton.....	Apr., 1919		1,299.75	1,299.75	
Port Hope.....	Nov., 1929	996.63			996.63
Prescott.....	Dec., 1913	828.35			828.35
Richmond.....	Aug., 1928	331.97			331.97
Russell.....	Feb., 1926	324.66			324.66
Smiths Falls.....	Sep., 1918	4,855.35			4,855.35
Stirling.....	Jan., 1930		87.55	87.55	
Trenton.....	Sept., 1931				
Tweed.....	Dec., 1930		301.96	301.96	
Warkworth.....	Oct., 1923	349.44			349.44
Wellington.....	Apr., 1919	234.84			234.84



## SYSTEM

*E.O.—CREDIT OR CHARGE*

supplied to it to October 31, 1931, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1932

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1932		Accumulated amount standing as a credit or charge on October 31, 1932	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
	7.00	701.85		694.85	
1.76		241.20		242.96	
29.00		35.05		64.05	
		366.47		366.47	
32.35		5,661.73		5,694.08	
4.52		410.98		415.50	
			1,824.91		1,824.91
	16.14	237.96		221.82	
19.90		5,436.16		5,456.06	
3.96		310.27		314.23	
102.59		3,777.63		3,880.22	
	9.99	1,150.88		1,140.89	
		2,273.76		2,273.76	
11.79		836.27		848.06	
	0.05	338.20		338.15	
	12.60	460.01		447.41	
1.23			349.72		348.49
	1.32	798.62		797.30	
23.82			1,089.21		1,065.39
5.48		389.96		395.44	
	250.61	188.12			5,762.49
9.86			3,388.10		3,378.24
	6.37	643.11		636.74	
0.89		144.67		145.56	
	1.00	74.66		73.66	
23.36		1,557.36		1,580.72	
17.74		2,276.62		2,294.36	
	1.58	50.10		48.52	
	316.49		9,188.57		9,505.06
90.40			1,687.94		1,597.54
96.71		3,476.02		3,572.73	
75.71		13,046.70		13,122.41	
	22.59	4,515.41		4,492.82	
16.23		59.52		75.75	
15.75		415.68		431.43	
5.64		258.05		263.69	
6.69		286.39		293.08	
96.05		4,340.41		4,436.46	
	1.47	324.98		323.51	
		2,427.34		2,427.34	
	4.95		988.63		993.58
7.13			210.49		203.36
3.82		451.00		454.82	

## EASTERN ONTARIO

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1932, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1931		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Westport.....	Nov., 1931				
Whitby.....	Jan., 1926		29.59	29.59	
Williamsburg.....	Apr., 1915	86.85			86.85
Winchester.....	Jan., 1914	320.08			320.08
RURAL POWER DISTRICTS*					
Alexandria R.P.D.....	Dec., 1929		1,837.97		
Arnprior R.P.D.....	Dec., 1930		1,002.56		
Belleville R.P.D.....	Aug., 1927	18,135.39			
Bowmanville R.P.D.....	Jan., 1924	631.44			
Brighton R.P.D.....	Nov., 1929		255.98		
Brockville R.P.D.....	Nov., 1921	1,244.16			
Campbellford R.P.D.....	Aug., 1924		874.85		
Carleton Place R.P.D.....	Feb., 1932				
Chesterville R.P.D.....	Nov., 1921	5,567.09			94.74
Cobourg R.P.D.....	Feb., 1927	2,327.51			
Colborne R.P.D.....	Aug., 1925	1,355.80			
Fenelon Falls R.P.D.....	Jul., 1931		410.76		
Iroquois R.P.D.....	Jul., 1930	1,388.77			
Kemptville R.P.D.....	Dec., 1930		542.09		
Kingston R.P.D.....	Jan., 1923		4,299.94		
Lakefield R.P.D.....	Jul., 1928		695.32		
Lindsay R.P.D.....	Jul., 1930		346.14		
Martintown R.P.D.....	Jan., 1922	765.31			
Maxville R.P.D.....	Dec., 1927		581.69		
Millbrook R.P.D.....	Jul., 1930		831.62		
Napanee R.P.D.....	Nov., 1927		3,150.43		
Nepean R.P.D.....	Feb., 1922	7,625.11			50.62
Newcastle R.P.D.....	Sep., 1927	1,503.69			
North Bay R.P.D.....	Jun., 1927	5,864.95			
Norwood R.P.D.....	Jan., 1929		873.42		
Omemee R.P.D.....	Jan., 1931		123.00		
Oshawa R.P.D.....	Apr., 1918	33,326.99			
Perth R.P.D.....	Aug., 1931		443.69		
Peterborough R.P.D.....	Jan., 1927	11,891.60			
Powassan R.P.D.....	Nov., 1931				
Prescott R.P.D.....	Jun., 1922		224.47		
Renfrew R.P.D.....	Nov., 1930		422.75		
Smiths Falls R.P.D.....	May, 1929		3,254.18		
Stirling R.P.D.....	Nov., 1929		760.10		
Trenton R.P.D.....	Jan., 1924	2,359.25			
Warkworth R.P.D.....	Nov., 1928	6.64			
Wellington R.P.D.....	Nov., 1925		2,555.46		
Williamsburg R.P.D.....	Feb., 1923		1,432.69		
Totals.....		132,491.81	55,137.96	24,518.85	38,643.47

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

## SYSTEM

## E.O.—CREDIT OR CHARGE

supplied to it to October 31, 1931, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1932

Interest at 4 % per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1932		Accumulated amount standing as a credit or charge on October 31, 1932	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	0.50	815.25	860.01	815.25	860.51
1.45	.....	563.99	.....	565.44	.....
6.05	.....	950.48	.....	956.53	.....
.....	73.52	.....	565.38	.....	2,476.87
.....	40.10	.....	362.14	.....	1,404.80
725.42	.....	1,954.91	.....	20,815.72	.....
25.26	.....	310.22	.....	966.92	.....
.....	10.24	.....	30.55	.....	296.77
49.77	.....	1,109.81	.....	2,403.74	.....
.....	34.99	.....	327.19	.....	1,237.03
.....	.....	.....	55.37	.....	55.37
220.47	.....	.....	2,244.39	3,448.43	.....
93.10	.....	.....	346.02	2,074.59	.....
54.23	.....	.....	1,576.16	.....	166.13
.....	16.43	.....	444.93	.....	872.12
55.55	.....	1,156.38	.....	2,600.70	.....
.....	21.68	65.11	.....	.....	498.66
.....	172.00	.....	4,007.45	.....	8,479.39
.....	27.81	.....	1,116.76	.....	1,839.89
.....	13.85	.....	430.06	.....	790.05
30.61	.....	.....	1,026.32	.....	230.40
.....	23.27	.....	337.80	.....	942.76
.....	33.26	.....	472.35	.....	1,337.23
.....	126.02	.....	4,615.05	.....	7,891.50
304.52	.....	.....	778.33	7,100.68	.....
60.15	.....	319.51	.....	1,883.35	.....
234.60	.....	1,471.51	.....	7,571.06	.....
.....	34.94	.....	490.12	.....	1,398.48
.....	4.92	.....	173.42	.....	301.34
1,333.08	.....	3,272.91	.....	37,932.98	.....
.....	17.75	.....	1,410.06	.....	1,871.50
475.66	.....	1,276.19	.....	13,643.45	.....
.....	.....	41.05	.....	41.05	.....
.....	8.98	.....	116.76	.....	350.21
.....	16.91	.....	380.48	.....	820.14
.....	130.17	.....	911.59	.....	4,295.94
.....	30.40	.....	666.76	.....	1,457.26
94.37	.....	25.85	.....	2,479.47	.....
0.27	.....	55.01	.....	61.92	.....
.....	102.22	.....	3,164.59	.....	5,822.27
.....	57.31	.....	411.69	.....	1,901.69
4,466.94	1,649.43	71,351.32	46,049.30	163,626.13	72,277.37



## EASTERN ONTARIO SYSTEM

## Reserve for Renewals—October 31, 1932

Total provision for renewals to October 31, 1931.....	\$3,816,713.72	
Deduct expenditures to October 31, 1931.....	866,143.68	
Balance brought forward at October 31, 1931.....	\$2,950,570.04	
Added during the year ending October 31, 1932:		
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them.....	\$119,155.70	
Amounts included in the costs of distribution of power within rural power districts.....	59,621.00	
Provision against equipment employed in respect of contracts with private companies, which purchased power, and against equipment in local distribution systems and Pulp Mill.....	70,605.15	
Reserve provided in respect of equipment transferred.....	567.98	
Interest at 4 % per annum on the monthly balances at the credit of the account.....	118,022.80	
		367,972.63
		<u>\$3,318,542.67</u>
Deduct:		
Expenditures during the year ending October 31, 1932.....	\$29,546.32	
Accumulated reserves for renewals in respect of local distribution systems sold to municipalities during the year—employed to write down the book values of such local distribution systems.....	232,677.32	
		<u>262,223.64</u>
Balance carried forward October 31, 1932.....	\$3,056,319.03	

## EASTERN ONTARIO SYSTEM

## Reserve for Obsolescence and Contingencies—October 31, 1932

Balance brought forward at October 31, 1931.....\$1,254,868.33

Added during the year ending October 31, 1932:

Reserve provided for doubtful accounts no longer necessary.....	\$6,500.00	
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them.....	69,150.33	
Amount included in the costs of distribution of power within rural power districts.....	29,810.50	
Provision against equipment employed in respect of contracts with private companies which purchased power, and local distribution systems.....	20,426.81	
Net profit from operation of local distribution systems and utilities.....	51,596.24	
Interest at 4% per annum on monthly balances at the credit of the account.....	50,284.02	
		227,767.90
		<u>\$1,482,636.23</u>

Deduct:

Contingencies met with during the year ending October 31, 1932	\$118,909.69	
Share of exchange paid to the Province of Ontario in respect of bonds retired in U.S.A. funds during the year.....	48,991.81	
		167,901.50

Balance carried forward October 31, 1932.....\$1,314,734.73

## EASTERN ONTARIO SYSTEM

## SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds, provided out of other revenues of the system, and interest allowed thereon to  
October 31, 1932

Municipality	Period of years ending Oct. 31, 1932	Amount	Rural Power District	Period of years ending Oct. 31, 1932	Amount
		\$ c.			\$ c.
Alexandria.....	8 years	15,644.86	RURAL POWER DISTRICTS*		
Apple Hill.....	8 "	1,487.73			
Athens.....	4 "	1,963.21	Alexandria R.P.D.....	3 years	719.36
Bath.....	1 "	197.12	Arnprior R.P.D.....	2 "	101.48
Belleville.....	4 "	47,019.61	Belleville R.P.D.....	4 "	5,500.78
			Bowmanville R.P.D.....	4 "	1,344.83
Bloomfield.....	4 "	2,120.14	Brighton R.P.D.....	3 "	331.24
Bowmanville.....	1 "	5,560.89	Brockville R.P.D.....	11 "	8,283.52
Brighton.....	3 "	2,906.02	Campbellford R.P.D.....	4 "	1,518.77
Brockville.....	12 "	80,957.62	Carleton Place R.P.D.....	1 "	3.51
Cardinal.....	3 "	977.62	Chesterville R.P.D.....	11 "	5,401.98
			Cobourg R.P.D.....	4 "	6,027.27
Carleton Place.....	8 "	35,365.68			
Chesterville.....	13 "	15,728.92	Colborne R.P.D.....	4 "	1,671.15
Cobourg.....	1 "	3,427.31	Fenelon Falls R.P.D.....	2 "	432.47
Deseronto.....	2 "	1,307.52	Iroquois R.P.D.....	3 "	4,450.66
Finch.....	5 "	1,499.69	Kemptville R.P.D.....	2 "	223.56
			Kingston R.P.D.....	4 "	5,186.01
Hastings.....	2 "	457.18			
Havelock.....	4 "	4,797.36	Lakefield R.P.D.....	4 "	330.21
Kemptville.....	8 "	8,652.10	Lindsay R.P.D.....	3 "	161.70
Lakefield.....	4 "	3,781.43	Martintown R.P.D.....	11 "	3,643.36
Lanark.....	8 "	2,714.19	Maxville R.P.D.....	5 "	3,901.12
			Millbrook R.P.D.....	3 "	602.03
Lancaster.....	8 "	3,717.90			
Lindsay.....	4 "	28,066.59	Napanee R.P.D.....	4 "	3,411.47
Madoc.....	3 "	1,846.15	Nepean R.P.D.....	11 "	9,777.43
Marmora.....	4 "	1,723.75	Newcastle R.P.D.....	4 "	1,276.62
Martintown.....	8 "	959.81	North Bay R.P.D.....	3 "	449.35
			Norwood R.P.D.....	4 "	467.28
Maxville.....	8 "	4,441.70			
Napanee.....	3 "	10,888.37	Omeme R.P.D.....	2 "	61.90
Norwood.....	4 "	2,285.20	Oshawa R.P.D.....	4 "	13,429.23
Oshawa.....	4 "	151,491.31	Perth R.P.D.....	2 "	229.07
Ottawa.....	17 "	38,711.28	Peterborough R.P.D.....	4 "	9,948.19
			Powassan R.P.D.....	1 "	20.40
Perth.....	8 "	29,643.76			
Peterborough.....	4 "	96,111.68	Prescott R.P.D.....	11 "	5,204.17
Pictou.....	4 "	16,322.07	Renfrew R.P.D.....	2 "	70.56
Port Hope.....	3 "	13,778.49	Smiths Falls R.P.D.....	4 "	3,411.49
Prescott.....	13 "	22,626.61	Stirling R.P.D.....	3 "	933.46
			Trenton R.P.D.....	4 "	1,464.42
Richmond.....	5 "	625.24			
Russell.....	7 "	2,519.15	Warkworth R.P.D.....	4 "	65.37
Smiths Falls.....	9 "	46,715.99	Wellington R.P.D.....	4 "	3,595.59
Stirling.....	3 "	2,277.14	Williamsburg R.P.D.....	8 "	621.20
Trenton.....	1 "	7,609.07			
			Total.....		857,536.86
Tweed.....	2 "	1,650.84			
Warkworth.....	4 "	1,174.16			
Wellington.....	4 "	3,134.43			
Westport.....	1 "	472.49			
Whitby.....	4 "	16,234.96			
Williamsburg.....	12 "	1,952.97			
Winchester.....	13 "	9,717.34			

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.



EASTERN ONTARIO SYSTEM

Reserve for Sinking Fund—October 31, 1932

Total provision for sinking fund to October 31, 1931..... \$659,715.86

Provided in the year ending October 31, 1932:

By charges included in the cost of power delivered to municipalities and rural power districts.....	\$109,178.26	
By charges included in the costs of distribution of power within rural power districts.....	16,015.88	
By charges against contracts with private companies which purchased power, and local distribution systems.....	46,192.56	
Interest at 4 % per annum on the amount standing at the credit of the account.....	26,434.30	197,821.00
Total.....		<u><u>\$857,536.86</u></u>

## THUNDER BAY

## Operating Account for the Year

## COSTS OF OPERATION AS PROVIDED FOR UNDER THE TERMS OF THE POWER COMMISSION ACT

Costs of operation and maintenance, including the proportion of administrative expenses chargeable to the operation of this system:		
Generation and transmission equipment.....	\$202,811.67	
Rural power districts.....	412.59	
		\$203,224.26
Interest (including exchange) on capital investment in:		
Generation and transmission equipment.....	\$1,017,361.90	
Rural power districts.....	368.45	
		1,017,730.35
Provision for renewals of:		
Generation and transmission equipment.....	\$147,206.47	
Rural power districts.....	264.72	
		147,471.19
Provision for obsolescence and contingencies in respect of:		
Rural power districts.....	\$132.36	
		132.36
Provision for sinking fund:		
By charges included in the cost of power delivered to municipalities and rural power districts.....	\$108,863.08	
By charges against contracts with private companies which purchase power.....	28,133.27	
By charges included in the cost of distribution of power within rural power districts.....	69.69	
		137,066.04
Total costs of operation.....		\$1,505,624.20
Deduct:		
Cost to the Commission (including provisions for sinking fund \$28,133.27 and renewals \$29,929.18) of power delivered to private companies and customers under flat rate contracts, in excess of the revenue received from them—which excess has been charged against the Contingency Reserve of the system.....		
	\$41,499.15	
Amount appropriated from the Contingency Reserve of the system and applied proportionately to each municipality in reduction of the costs of operation.....		
	102,000.00	
		143,499.15
		<u>\$1,362,125.05</u>

## SYSTEM

Ending October 31, 1932

## REVENUE FOR PERIOD

Amount received from (or billed against) each municipality by the Commission.....	\$987,259.54	
Power sold to private companies.....	246,505.66	
Amounts received from (or billed against) customers in rural power districts.....	1,672.97	
		<u>\$1,235,438.17</u>
Add:		
Amounts due by certain municipalities, being the difference between the sums received (or billed) at interim rates and the amounts charged—following annual adjustment—in respect of power supplied in the year.....	\$127,446.02	
Amounts due by municipalities comprising certain Rural Power Districts, being the difference between the sums received from (or billed against) customers therein and the amounts charged to such districts—following annual adjustment—in respect of power supplied in the year.....	123.34	
		<u>127,569.36</u>
		<u>\$1,363,007.53</u>
Deduct:		
Amounts received from the Township of Nipigon in excess of the sum required to be paid by it for power supplied in the year.....	\$881.60	
Sums received from (or billed against) customers in Port Arthur Rural Power District in excess of the amounts charged to this district—following annual adjustment—in respect of power supplied in the year.....	0.88	
		<u>882.48</u>
Revenue.....	\$1,362,125.05	
		<u><u>\$1,362,125.05</u></u>



## THUNDER BAY

Statement showing the amount chargeable (upon annual adjustment) to each by the Commission; the amount appropriated from the contingency reserve amount received by the Commission from each Municipality; municipality in respect of power supplied to

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Share of operating	
	To Jan. 1, 1932	To Oct. 31, 1932			Operating, maintenance and administrative expenses	Interest (including exchange)
			\$ c.		\$ c.	\$ c.
Fort William.....	\$21.00 plus transformation charges...		3,519,429.32	10,488.6	39,948.04	193,881.24
Port Arthur.....	\$21.00 plus transformation charges...		11,089,652.23	33,558.4	122,461.00	610,464.01
Township of Nipigon....	\$30.00....	\$35.00....	24,229.76	78.7	243.93	1,335.59
RURAL POWER DISTRICT						
Fort William R.P.D.—Neebing and Paipoonge twps.....			1,811.96	5.4	20.41	100.35
Port Arthur R.P.D.—Shuniah twp.....			5,065.52	14.2	78.04	276.48
Totals—Municipalities.....			14,633,311.31	44,125.7	162,652.97	805,680.84
Totals—Rural power districts.....			6,877.48	19.6	98.45	376.83
Totals—Companies.....			3,815,365.26	11,736.3	40,060.25	211,304.23
			18,455,554.05			
Non-operating capital.....			4,049.61			
Grand totals.....			18,459,603.66	55,881.6	202,811.67	1,017,361.90

## THUNDER BAY SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain Districts or charged to annual adjustment) of the actual costs

District and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	\$ c.	\$ c.	\$ c.	\$ c.
Fort William R.P.D.—Neebing and Paipoonge twps.....	25,389.57	12,694.78	12,694.79	139.10
Port Arthur R.P.D.—Shuniah twp.....	16,880.12	8,440.06	8,440.06	408.52
Totals.....	42,269.69	21,134.84	21,134.85	547.62

## SYSTEM

T.B.—COST OF POWER

Municipality as the Cost—under Power Commission Act—of Power supplied to it of the system and proportionately applied in reduction of such cost; the and the amount remaining to be credited or charged to each it in the year ending October 31, 1932

costs and fixed charges		Total cost of power for year	Amount appropriated from contingency reserve and proportionately applied in reduction of such cost	Amounts charged to each municipality in respect of power supplied to it in the year	Amounts received from (or billed against) each municipality by the Commission	Amounts remaining to be credited or charged to each municipality	
Renewals	Sinking fund					Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
28,479.22	26,297.28	288,605.78	19,144.71	269,461.07	245,166.86	.....	24,294.21
88,557.58	82,339.89	903,822.48	61,253.74	842,568.74	739,416.93	.....	103,151.81
183.89	174.39	1,937.80	143.65	1,794.15	2,675.75	881.60	.....
14.66	13.54	148.96	9.86	139.10	139.10	.....	.....
41.94	37.98	434.44	25.92	408.52	408.52	.....	.....
117,220.69	108,811.56	1,194,366.06	80,542.10	1,113,823.96	987,259.54	881.60	127,446.02
56.60	51.52	583.40	35.78	547.62	547.62	.....	.....
29,929.18	28,133.27	309,426.93	21,422.12	288,004.81	246,505.66	.....	41,499.15*
147,206.47	136,996.35	1,504,376.39	102,000.00	1,402,376.39	1,234,312.82	.....	.....

\*Written off through Contingency Reserve.

## RURAL POWER DISTRICTS

T.B.—RURAL OPERATING

District, the revenues collected from (or charged to) customers within each District, the Municipalities comprising certain other Districts upon ascertainment (by in the year ending October 31, 1932

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest (including exchange)	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
100.72	58.90	42.32	21.16	11.14	373.34	250.00	.....	123.34
311.87	309.55	222.40	111.20	58.55	1,422.09	1,422.97	0.88	.....
412.59	368.45	264.72	132.36	69.69	1,795.43	1,672.97	0.88	123.34

## THUNDER BAY

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount Credited ending October 31, 1932, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1931		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		\$ c.	\$ c.	\$ c.	\$ c.
Fort William.....	Oct., 1926	.....	10,783.50	10,783.50	.....
Nipigon twp.....	Jan., 1925	546.08	.....	.....	546.08
Port Arthur.....	Dec., 1910	.....	32,705.45	.....	.....
RURAL POWER DISTRICTS*					
Fort William R.P.D.....	Oct., 1932	.....	.....	.....	.....
Port Arthur R.P.D.....	Jan., 1932	.....	.....	.....	.....
		546.08	43,488.95	10,783.50	546.08

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

## THUNDER BAY SYSTEM

## Reserve for Renewals—October 31, 1932

Total provision for renewals to October 31, 1931.....	\$958,502.36
Deduct:	
Expenditures to October 31, 1931.....	3,358.56
Balance brought forward October 31, 1931.....	\$955,143.80
Added during the year ending October 31, 1932:	
Amounts charged to municipalities as part of the cost of power delivered to them.....	\$117,277.29
Amounts included in the costs of distribution of power within rural power districts.....	264.72
Provision against equipment employed in respect of contracts with private companies which purchased power.....	29,929.18
Interest at 4% per annum on monthly balances at the credit of the account.....	38,205.75
	185,676.94
	\$1,140,820.74
Deduct:	
Expenditures during the year ending October 31, 1932.....	298.34
Balance carried forward October 31, 1932.....	\$1,140,522.40



SYSTEM

*T.B.—CREDIT OR CHARGE*

supplied to it to October 31, 1931, the cash receipts and payments thereon, adjustments or Charged to each Municipality in respect of power supplied in the year as a Credit or Charge to each Municipality at October 31, 1932

Interest at 4 % per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1932		Accumulated amount standing as a credit or charge on October 31, 1932	
Credited	Charged	Credited	Charged	Credit	Charge
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
10.03	233.35	881.60	24,294.21	891.63	24,527.56
	1,308.22		103,151.81		137,165.48
			123.34		123.34
		0.88		0.88	
10.03	1,541.57	882.48	127,569.36	892.51	161,816.38

THUNDER BAY SYSTEM

Reserve for Obsolescence and Contingencies—October 31, 1932

Balance brought forward October 31, 1931.....	\$920,639.40
Added during the year ending October 31, 1932:	
Amount included in the costs of distribution of power within rural power districts.....	\$132.36
Interest at 4 % per annum on monthly balances at the credit of the account.....	36,825.58
	<u>36,957.94</u>
	\$957,597.34
Deduct:	
Cost to the Commission (including provisions for Sinking Fund \$28,133.27 and Renewals \$29,929.18) of power delivered to private companies under flat rate contracts in excess of the revenue received from them.....	\$41,499.15
Commission's share of American exchange paid during the year by the Province of Ontario on the transfer of funds to New York to meet capital retirements.....	102,857.13
NOTE.—Above amount is exclusive of American exchange on interest coupons.	
Amount appropriated from the Contingency Reserve and applied proportionately to each municipality in reduction of the cost of delivery of power thereto.....	<u>102,000.00</u>
	246,356.28
Balance carried forward October 31, 1932.....	<u>\$711,241.06</u>

## THUNDER BAY SYSTEM

## SINKING FUND

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds provided out of other revenues of the system, and interest allowed thereon to October 31, 1932

Municipality	Period of years ending October 31, 1932	Amount
		\$ c.
Fort William.....	6 years	198,429.14
Port Arthur.....	6 "	687,753.77
Township of Nipigon.....	6 "	1,144.42
RURAL POWER DISTRICT*		
Fort William R.P.D.....	1 year	28.12
Port Arthur R.P.D.....	1 "	105.58
Total.....		887,461.03

\*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

## SUDBURY DISTRICT—

## Operating Account for the

## COST OF OPERATION

Cost of operating and maintaining generating plants, transmission lines and stations, including water rentals and the proportion of administrative expenses of the Commission chargeable to the operation of the properties.....	\$78,387.34
Engineering and other expenses in connection with arrangements for an additional supply of power for this district.....	1,113.29
Interest on the capital investment of the Commission in the Wahnapiatae properties	157,265.71
Provision for renewals.....	27,096.90
	\$263,863.24
Surplus—Available for contingency reserve.....	73,789.16
	<u>\$337,652.40</u>

## SUDBURY DISTRICT—WAHNAPITAE PROPERTIES

## Reserve for Renewals—October 31, 1932

Balance brought forward at October 31, 1931.....	\$26,874.94
Added during the year ending October 31, 1932.....	\$27,096.90
Interest at 4 per cent. per annum on monthly balances at the credit of the account.....	1,075.00
	<u>28,171.90</u>
	\$55,046.84
Deduct:	
Expenditures during the year.....	139.18
Balance carried forward October 31, 1932.....	<u>\$54,907.66</u>

## THUNDER BAY SYSTEM

## Reserve for Sinking Fund—October 31, 1932

Total provision for sinking fund to October 31, 1931.....		\$721,533.64
Provided in the year ending October 31, 1932:		
By charges included in the cost of power delivered to municipalities.....	\$108,863.08	
By charges included in the costs of distribution of power within rural power districts.....	69.69	
By charges against contracts with private companies which purchase power.....	28,133.27	
Interest at 4 % per annum on amounts standing at the credit of the reserve account.....	28,861.35	
		165,927.39
Total.....		<u>\$887,461.03</u>

## WAHNAPITAE PROPERTIES

## Year ending October 31, 1932

## REVENUE FOR PERIOD

Power sold at fixed rates to private consumers and municipalities.....	\$337,652.40
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\$337,652.40

## SUDBURY DISTRICT—WAHNAPITAE PROPERTIES

## Reserve for Obsolescence and Contingencies—October 31, 1932

Balance brought forward at October 31, 1931.....		\$54,392.24
Added during the year ending October 31, 1932.....	\$73,789.16	
Interest at 4 per cent. per annum on monthly balances at the credit of the account.....	2,175.69	
		75,964.85
Deduct:		\$130,357.09
Share of exchange paid to Province in respect of capital retired in American funds.....	28,641.10	
Balance carried forward, October 31, 1932.....		<u>\$101,715.99</u>



ABITIBI DISTRICT—  
Operating Account for the

COST OF OPERATION

Power purchased.....	\$315,250.00
Cost of operating and maintaining transmission line and metering station.....	38,374.40
Interest on the capital investment of the Commission in the Abitibi line and station	132,853.14
	<u>\$486,477.54</u>

PATRICIA DISTRICT—  
Operating Account for the

COST OF OPERATION

Cost of operating and maintaining generating plant at Ear Falls, including water rentals and the proportion of administrative expenses chargeable to the operation of the plant.....	\$18,698.70
Interest on Commission's investment in the plant.....	29,276.24
Surplus—Available for renewals reserve.....	2,185.24
(Standard rate at $1\frac{1}{2}\%$ = 7,247.72)	
	<u>\$50,160.18</u>

ACCOUNT WITH THE PROVINCIAL TREASURER—NIAGARA AND

June 7, 1932	Cash returned to the Province in the year ending	
Aug. 5, 1932	October 31, 1932, to cover the difference between	
Sept. 9, 1932	advances by the Province to the Commission	
	and the capital expenditures made out of such	
	advances by the Commission, in the year ending	
	October 31, 1931.....	\$902,314.82
June 7, 1932	Repayment to the Province of the investment—	
	according to book values—in the distribution	
	systems in Bowmanville and Trenton (in the	
	former Central Ontario System) upon the sale	
	of these properties to the municipalities.....	297,050.10
Apr. 30, 1932	Paid on account of interest and exchange.....	\$5,666,082.82
Oct. 31, 1932	American exchange on interest payable in New	
	York funds on registered bonds of the Province	
	of Ontario held by the Commission as the invest-	
	ment, in part, of its reserve funds.....	145,030.08
Oct. 31, 1932	Cheque to cover balance of interest and exchange	
	for year ending October 31, 1932.....	5,777,358.40
		<u>11,588,471.30</u>
Oct. 31, 1932	Payment under debt retirement plan.....	2,402,944.38
Oct. 31, 1932	Balance carried down.....	189,635,191.09
		<u>\$204,825,971.69</u>

**ABITIBI-SUDBURY LINE****Year ending October 31, 1932**

## REVENUE FOR PERIOD

Power sold at fixed rate to the International Nickel Company.....	\$288,000.00
Excess of costs of operation (including interest) over revenue.....	198,477.54
which amount is recoverable from the Province of Ontario under the terms of an agreement dated July 29th, 1930, approved by Order-in-Council dated July 31, 1930.	
	<u>\$486,477.54</u>

**(EAR FALLS GENERATING PLANT)****Year ending October 31, 1932**

## REVENUE FOR PERIOD

Power sold to private consumer.....	\$50,160.18
	<u>\$50,160.18</u>

**Patricia District—Reserve for Renewals—October 31, 1932**

Balance brought forward at October 31, 1931.....	\$5,674.60
Added during the year ending October 31, 1932.....	\$2,185.24
Provision for renewals on equipment transferred.....	73.20
Interest at 4 per cent. annum on monthly balances at the credit of the account.....	226.98
	<u>2,485.42</u>
Balance carried forward, October 31, 1932.....	<u>\$8,160.02</u>

**OTHER SYSTEMS—FOR THE YEAR ENDING OCTOBER 31, 1932**

Oct. 31, 1931	Cash advances to date for the purposes of Niagara and other Power Systems.....	\$200,827,676.36
	Less repayments to that date under debt retire- ment plan.....	12,450,495.97
		<u>\$188,377,180.39</u>
Nov. 1, 1931 to Oct. 31, 1932	Sundry cash advances.....	4,860,320.00
Oct. 31, 1932	Interest for year on all cash advances—at the rates listed hereunder.....	\$10,484,659.44
Oct. 31, 1932	Commission's share of American exchange paid during the year by the Province of Ontario on the transfer of funds to New York to meet interest and capital retirements.....	1,718,358.76
		<u>\$12,203,018.20</u>
	Less—Interest credited by Province on repay- ments made by Commission.....	614,546.90
		<u>11,588,471.30</u>
		<u>\$204,825,971.69</u>
Nov. 1, 1932	Total cash advances.....	\$204,488,631.44
	Less—Payments made under debt retirement plan.....	14,853,440.35
		<u>\$189,635,191.09</u>

## GUELPH

## Operating Account for

## EXPENDITURE

Transportation expense.....	\$25,403. 63	
Maintenance—way and structures.....	7,938. 41	
Maintenance—equipment.....	17,404. 29	
Electric power and motor fuel.....	7,282. 81	
General operating and management expenses.....	8,565. 97	
Proportion of administrative and accounting expenses of the Commission chargeable to the operation of the railway.....	2,772. 69	
Insurance.....	4,011. 95	
Taxes.....	353. 89	
		\$73,733. 64
Interest.....		13,888. 30
Provision for instalments payable to the city of Guelph on May 1, 1932, and November 1, 1932, under purchase agreement:		
Interest for year.....	\$3,712. 82	
On account of principal.....	7,987. 18	
		11,700. 00
Provision for sinking fund.....		3,159. 00
		<u>\$102,480. 94</u>

## GUELPH RADIAL RAILWAY

## Reserve for Renewals—October 31, 1932

Total provision for renewals to October 31, 1931.....	\$54,546. 23
Deduct:	
Expenditures to October 31, 1931.....	22,915. 16
Balance brought forward October 31, 1931.....	\$31,631. 07
Added during the year ending October 31, 1932:	
Interest at 4% on the monthly balances to the credit of the account.....	1,247. 18
	\$32,878. 25
Deduct:	
Expenditures during the year ending October 31, 1932.....	1,945. 03
Balance carried forward October 31, 1932.....	<u>\$30,933. 22</u>



**RADIAL RAILWAY**

**the Year ending October 31, 1932**

REVENUE

Operating revenue.....	\$65,595.53
Net deficit for year payable by the city of Guelph.....	36,885.41

\$102,480.94

**GUELPH RADIAL RAILWAY**

**Reserve for Sinking Fund—October 31, 1932**

Total provision for sinking fund to October 31, 1931.....	\$1,579.50
Provided in the year ending October 31, 1932.....	3,159.00
Interest at 4% on the monthly balances at the credit of the account.....	63.18
Balance carried forward October 31, 1932.....	<u>\$4,801.68</u>

**THE HAMILTON STREET**  
**A Subsidiary of the Hydro-Electric**  
**Balance Sheet—**

ASSETS

Properties, road, equipment, motor buses, franchises, etc., as shown in the books of the Company.....	\$4,929,742.79	
Less: Reserves for renewal—		
Of properties, road and equipment.....	\$840,772.59	
Of motor buses (fully covered).....	193,586.94	
	<u>1,034,359.53</u>	
		\$3,895,383.26
Work in progress—Chargeable upon completion to accounts receivable and to plant accounts.....		23,950.43
Materials and supplies.....		58,658.64
Cash in hands of conductors and other employees.....		11,300.00
Accounts receivable.....	\$17,193.55	
Less: Reserve for doubtful accounts.....	187.00	
		<u>17,006.55</u>
Taxes and insurance prepaid.....		6,443.18
		<u><u>\$4,012,742.06</u></u>

**THE HAMILTON STREET**  
**A Subsidiary of the Hydro-Electric**  
**Statement of Revenue and Expenditure—**

EXPENDITURE

Transportation expenses.....	\$388,473.41
Maintenance—way and structures.....	71,902.62
Maintenance—equipment.....	135,182.76
Power and motor fuel—including power purchased.....	196,146.77
General operating and management expenses.....	85,071.27
Taxes.....	59,647.06
Insurance—Fire and liability.....	18,612.69
Total operating expenses.....	<u>\$955,036.58</u>
Net profit for year, before provision for renewal of road and equipment.....	175,807.57
	<u><u>\$1,130,844.15</u></u>
Dividend paid to extent of interest payable on Commission's investment in the capital stock of the Railway Company.....	\$153,877.98
Balance carried to balance sheet.....	21,929.59
	<u><u>\$175,807.57</u></u>

## RAILWAY COMPANY

## Power Commission of Ontario

October 31, 1932

## LIABILITIES

Capital stock:	
Issued—64,100 shares of a par value of \$50 each.....	\$3,205,000.00
Capital surplus—Created by advances to the Company by Dominion Power & Transmission Company, Limited, prior to 31st Decem- ber, 1929.....	488,846.85
	<u>\$3,693,846.85</u>
Profit and loss account.....	21,929.59
Hydro-Electric Power Commission of Ontario—	
Cash advances.....	273,212.37
Accounts payable and accrued charges.....	17,953.25
Reserve for outstanding tickets.....	5,800.00
	<u><u>\$4,012,742.06</u></u>

## RAILWAY COMPANY

## Power Commission of Ontario

For the Year Ending October 31, 1932

## REVENUE

Passenger.....	\$1,116,240.44
Freight and express.....	3,225.21
Miscellaneous.....	11,378.50
Total Revenue.....	<u>\$1,130,844.15</u>

\$1,130,844.15Net profit for year, before provision for renewal of road and equipment..... \$175,807.57\$175,807.57



# **APPROPRIATIONS, ADVANCES AND CAPITAL EXPENDITURES**

**For the Year Ending October 31, 1932**

**Appropriations made by the Legislature for the purposes of the Commission, Cash  
Advances by the Province to the Commission on account of such appropriations,  
and the Capital Expenditures made on each Undertaking and System  
by the Commission out of such Cash Advances in the Year  
Ending October 31, 1932**

## **NIAGARA SYSTEM**

### **Appropriations by Legislature:**

For power developments . . . . .	\$2,400,000.00
For transformer stations . . . . .	1,950,000.00
For transmission lines . . . . .	2,700,000.00
	<u>\$7,050,000.00</u>

Cash advances to the Commission out of such appropriations . . . .	\$4,158,750.00	
Unexpended balance as at October 31, 1932, returnable to Province	245,780.30	
	<u></u>	\$3,912,969.70

### **Capital expenditure by the Commission:**

On Queenston-Chippawa development.....	\$37,959.04
On Chats Falls development.....	1,042,791.19
On right-of-way.....	729.47
On steel-tower lines.....	16,588.33
On wood-pole lines.....	41,600.03
On transformer stations.....	306,458.62
On Eastern transmission lines.....	1,292,289.92
On Eastern transformer stations.....	773,684.91
On rural power districts.....	400,868.19
	<hr/>
	\$3,912,969.70

## **GEORGIAN BAY SYSTEM**

Appropriations by Legislature . . . . . \$790,000.00

Cash advances to the Commission out of such appropriations . . . . \$171,208.00  
Unexpended balance as at October 31, 1932, returnable to Province 45,627.68

\$125,580.32

### **Capital expenditure by the Commission:**

On power development . . . . .	\$2,167.47
On transformer stations . . . . .	18,671.67
On rural power districts . . . . .	93,265.93
On local distribution systems . . . . .	20,303.84
	<u>\$134,408.91</u>

On transmission lines:

Receipts in excess of expenditures . . . . . 8,828.59

\$125,580.32

**EASTERN ONTARIO SYSTEM**

Appropriations by Legislature.....	\$670,000.00	
Cash advances to the Commission out of such appropriations.....	\$268,400.00	
Unexpended balance as at October 31, 1932, returnable to the Province	29,707.36	\$238,692.64
<b>Capital expenditure by the Commission:</b>		
On power developments.....	\$15,002.74	
On transmission lines.....	19,546.93	
On transformer stations.....	52,919.09	
On rural power districts.....	142,634.13	
On local distribution systems.....	8,589.75	\$238,692.64

**THUNDER BAY SYSTEM**

Appropriations by Legislature and by Treasury Board minute.....	\$127,229.00	
Cash advances to the Commission out of such appropriations and Treasury Board minute.....	\$84,279.00	
Unexpended balance as at October 31, 1932, returnable to the Province	9,903.88	\$74,375.12
<b>Capital expenditure by the Commission:</b>		
On power developments.....	\$49,038.21	
On transmission lines.....	387.92	
On transformer stations.....	4,546.50	
On rural power districts.....	20,402.49	74,375.12

**NORTHERN DISTRICTS**

Appropriations by Legislature and by special warrant.....	\$489,000.00	
Cash advances to the Commission out of such appropriations and special warrant.....	\$81,157.00	
Expended out of the Commission's working funds.....	46,273.39	\$127,430.39
<b>Capital expenditure by the Commission:</b>		
On power development—Sudbury district.....	\$18.28	
On transmission lines—Sudbury district.....	3,006.06	
On transformer stations—Sudbury district.....	319.29	
On transmission lines—Abitibi district.....	108,690.96	
On transformer stations—Abitibi district.....	753.70	
On transformer stations—Manitoulin district.....	108.35	
On rural power districts—Manitoulin district.....	15,011.26	
	\$127,907.90	
On power development—Patricia district (Ear Falls):		
Receipts in excess of expenditures.....	477.51	\$127,430.39

**MISCELLANEOUS**

Appropriations by Legislature.....	\$1,510,000.00	
Cash advances to the Commission out of such appropriations.....	\$96,526.00	
Unexpended balance as at October 31, 1932, returnable to Province	3,025.52	\$93,500.48
<b>Capital expenditure by the Commission:</b>		
On administration building.....	\$91,590.12	
On service buildings and equipment.....	1,910.36	\$93,500.48

RURAL POWER DISTRICTS—SUMMARY

Statement showing the total Capital Expenditures to October 31, 1932, on the construction of Primary and Secondary Lines in Rural Power Districts; the portion thereof in course of construction; the investment in lines in operation; the amounts of the Grants (fifty per cent of both Primary and Secondary lines) payable to the Commission by the Province of Ontario; also the extents to which Grants stand authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the amounts of such Grants paid over by the Province to the Commission under such authorizations up to October 31, 1932

System	Total capital expenditure	In course of construction	In operation	Grant (50% of primary and secondary lines) payable by the Province*		Extents to which grants stand authorized by orders-in-council	Grant paid by Province to Commission under such authorizations
				\$	c.		
Niagara system.....	12,365,849.45	\$ 74,311.70	\$ 12,291,537.75	6,141,459.59	c.	7,103,820.31	\$ 6,141,459.59
Georgian Bay system.....	1,402,264.80	3,474.23	1,398,790.57	671,113.28		778,940.52	670,575.07
Thunder Bay system.....	42,269.69	.....	42,269.69	21,134.84		43,558.50	21,134.84
Manitoulin district.....	30,022.52	30,022.52	.....	15,011.26		27,273.00	15,011.26
Eastern Ontario system (including Nipissing, Ottawa and Madawaska districts)	3,123,820.54	7,013.62	3,116,806.92	1,544,589.32		1,749,100.89	1,541,178.36
Totals.....	16,964,227.00	114,822.07	16,849,404.93	8,393,308.29		9,702,693.22	8,389,359.12
Additional sum authorized by above Orders-in-Council and paid over to the Commission, but not allocated as between rural power districts.....	.....	.....	.....	.....		.....	126,748.98
							8,516,108.10

NOTE:—

The cash paid over by the Province to the Commission up to October 31, 1932, on account of authorized grants to rural power districts—as above set out—amounts to.....	\$8,516,108.10
The Grants payable by the Province—as above set out—in respect of rural power districts as at October 31, 1932, amount in the aggregate to.....	8,393,308.29
A balance of.....	\$122,799.81
Which balance represents:	
(a) Grant funds in the hands of the Commission at October 31, 1932, not allocated but to apply against the construction of authorized rural power districts and extension to existing districts.....	\$126,748.98
Less:	
(b) Grants (or balance thereof) payable by the Province to the Commission in respect of certain rural power districts completed, or under construction.....	3,949.17
	\$122,799.81

\*Grants not made by Province in respect of a summer resort, a number of street-lighting systems and intangible values in certain rural power districts.



## SECTION X

### MUNICIPAL ACCOUNTS

#### **And Statistical Data Relating to Hydro-Electric Distribution Systems Operated by Individual Municipalities Served by The Hydro-Electric Power Commission**

The Municipal Accounts section of this report presents in summary, and individually, the results of the operation of the local electrical utilities in municipalities owning their own distributing system and operating with energy supplied by or through the Hydro-Electric Power Commission.

Financial statements prepared from the books of these "Hydro" utilities are submitted herein to show how each has operated during the past year, and the financial status at the present time. Other tables give much useful statistical information respecting average costs for the various classes of service and the rates in force.

The books of account of the local electrical utilities in all municipalities which have contracted with the Hydro-Electric Power Commission of Ontario for a supply of power are kept in accordance with a uniform accounting system designed by the Commission. During the year 1932, the uniform accounting system was installed in the following municipalities as each became ready for the service: Bath, Bowmanville, Cobourg, Trenton, Westport.

Periodical inspections are made of the books of all "Hydro" electrical utilities and local officials are assisted in the improvement of their office routine with a view to standardizing, as far as possible, the methods employed. In the majority of the smaller municipalities, much of the bookkeeping for the electrical utilities is performed by representatives of the Municipal Audit department of the Commission, in order to insure the employment of proper classifications of revenues and expenditures, to save time in preparation of reports, to insure compliance with all the requirements of the standard accounting system, and to make certain that the accounts represent as truly as possible the actual operating results for the year.

The first financial statement in this section presents consolidated balance sheets for each year since 1912, and thus shows the march of progress. It combines the balance sheets of the local municipal utilities of all the systems.

It is worth noting that the total plant value has increased from \$10,081,469.16 in 1913 to \$89,887,049.72 in 1932, and the total assets from \$11,907,826.86 to \$132,376,063.97. The liabilities have not increased in the same proportion as the assets, rising from \$10,468,351.79 to \$52,685,316.86. The reason for this is that much of the cost of the increasing plant value has been financed out of reserves without increasing the capital liabilities of the various utilities. By this procedure the funds of the systems are used to best advantage. Examination of the results will also show that there is a steady decline in the percentage of net liabilities to total assets; being from 88.0 per cent in 1913 to 43.4 per cent in 1932. The equities in the Hydro-Electric Power Commission's systems automatically acquired through the inclusion of sinking funds as part of the cost of power are not taken into account in arriving at these percentages.

The second financial statement presents consolidated operating reports for each year since "Hydro" service was inaugurated and combines the results from the local municipal utilities of all the systems. After providing for every cost of operation and fixed charges, including the standard provision for depreciation, the combined operating reports show a net shortage of \$83,622.52 for 1932.

The five statements, "A" to "E," following the two consolidated reports show the financial status of each municipal system and the results of operations, and also give information respecting revenue, number of consumers and consumption; cost of power to municipalities; power and lighting rates charged to consumers, etc. In the statements "A" and "B," the municipalities are arranged alphabetically under each system; in statement "D" the municipalities are arranged in three groups—cities, towns and small municipalities; in statements "C" and "E" all municipalities are arranged alphabetically.

**Statement "A"** shows balance sheets for each municipality with the plant values subdivided into the general subdivisions specified in the standard accounting system, and there are also shown the other items which make up the total assets. It is to be noted that among the assets there are items entitled "equity in H.E.P.C. systems." These items represent the amount of accumulated sinking fund paid by the various municipalities through the medium of "power cost" toward the ultimate retirement of the capital invested by the Hydro-Electric Power Commission of Ontario on behalf of the partner municipalities. The total accumulation to the end of 1932 is shown on the consolidated balance sheet to be \$23,066,129.81.

During the year rebates were made in many municipalities in respect of surpluses standing to the credit of municipal street lighting and waterworks services, and to individual consumers, of amounts varying from one-sixth to one-twelfth of the previous year's revenue. These rebates amounted in round figures to approximately \$243,000.00 and affected the cash balances and surpluses in the current balance sheets accordingly.

In each case the balance sheet is complete and final, including either in "accounts receivable," or "accounts payable," the adjustments with the Hydro-Electric Power Commission of the differences between the estimated and the actual costs of power to the municipality.

The liabilities of each local system are set out under their general subdivisions,—debenture balance, accounts payable, bank overdraft, and other liabilities; this last account including local debentures issued by municipalities to finance ornamental street-lighting systems as local improvements.

The reserves for depreciation, and the acquired equity in the Hydro-Electric Power Commission's systems, are also listed separately and totalled; and under the heading "surplus" are included not only the free operating surplus but the accumulation of sinking fund applicable to debenture debt and also the amount of debentures already retired out of revenue.

The "depreciation reserve" now amounts to 18.81 per cent of the total depreciable plant, while the "depreciation reserve" and "surplus" combined have already reached the sum of \$54,722,308.66, approximating 60.88 per cent of the total plant cost.

**Statement "B"** shows detailed operating reports for each municipal electrical utility. It gives annual revenues from the various classes of consumers; the items of expenditure which make up the total annual expenditure and the sums set aside for depreciation. The population served by each local utility, and the number of consumers of each class are also shown.

The item "power purchased" in this statement includes the debit or credit balances ascertained by the annual adjustment of the cost of power supplied to the municipalities by the Commission.

Of the 280 municipal electric utilities included in this statement, 174 received from consumers revenue sufficient to meet all operating expenses and fixed charges and to yield an aggregate operating surplus of \$568,220.27 for the year; 62 were able to defray, out of revenue, all operating expenses and fixed charges except the full provision on account of depreciation, the revenue being insufficient to take care of the standard reserves in this respect provided during the year by \$521,921.15; in the case of 44 utilities the revenue was short of meeting operating expenses and fixed charges other than depreciation by \$60,715.64.

**Statement "C"** shows the installation of street lights in each municipality together with the rates set by this Commission, the revenue for 1932, and the cost per capita in each municipality.

**Statement "D"** presents statistics relating to the supply of electrical energy to consumers in Ontario municipalities served by the Commission. It shows the revenue, kilowatt-hour consumption, number of consumers, average monthly consumption, average monthly bill and the net average cost per kilowatt-hour both for domestic and for commercial light service in each municipality. For power service this statement shows the revenue, the number of consumers and the average horsepower supplied by the municipal utility.\* For further reference to this informative statement, consult the special introduction to it on page 380.

**Statement "E"** presents the cost per horsepower of the power provided for and delivered to the municipalities by the Commission, and the local rates to consumers in force in the respective municipalities, during the year 1932, for domestic service, for commercial light service and for power service.

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\*The statistics include retail power only. Wholesale industrial power as supplied by the Commission direct, is reported in Section IX.



## CONSOLIDATED

YEAR.....	1913	1914	1915
Number of municipalities included . . . .	45	69	99
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....	626,707.34	791,732.20	873,838.18
Substation equipment.....	1,090,875.69	1,476,087.84	1,582,062.56
Distribution system—overhead.....	2,690,834.74	3,422,763.93	4,234,626.05
Distribution system—underground.....	644,514.24	807,153.53	928,420.77
Line transformers.....	615,546.20	787,613.52	981,754.70
Meters.....	840,606.64	1,172,475.11	1,418,165.08
Street lighting equipment—regular.....	900,614.80	1,071,255.37	1,309,628.49
Street lighting equipment—ornamental.....	62,765.34	270,386.55	197,644.82
Miscellaneous construction expenses.....	866,551.89	2,062,035.90	1,701,182.66
Steam or hydraulic plant.....	1,401,175.28	420,108.33	461,651.60
Old plant.....	341,277.00	619,513.12	1,184,372.86
Total plant.....	10,081,469.16	12,901,125.40	14,873,347.77
Bank and cash balance.....	450,887.97	422,350.12	284,653.96
Securities and investments.....			
Accounts receivable.....	344,487.95	561,873.08	602,920.69
Inventories.....	540,274.58	615,226.76	726,556.76
Sinking fund on local debentures.....	431,747.27	625,217.03	868,983.78
Equity in H-E.P.C. systems.....			
Other assets.....	58,959.93	123,410.97	326,801.11
Total assets.....	11,907,826.86	15,249,203.36	17,683,264.07
<b>LIABILITIES</b>			
Debenture balance.....	8,711,308.37	10,678,078.36	11,831,811.03
Accounts payable.....	1,553,711.45	1,682,150.29	2,040,038.01
Bank overdraft.....	160,919.16	228,622.50	292,106.44
Other liabilities.....	42,412.81	113,838.66	37,388.31
Total liabilities.....	10,468,351.79	12,702,689.81	14,201,343.79
<b>RESERVES</b>			
For equity in H-E.P.C. systems.....			
For depreciation.....	478,145.88	850,618.07	1,337,739.73
Other reserves.....			
Total reserves.....	478,145.88	850,618.07	1,337,739.73
<b>SURPLUS</b>			
Debentures paid.....	202,751.26	320,129.10	394,466.22
Local sinking fund.....	431,747.27	625,217.03	868,983.78
Operating surplus.....	326,830.66	750,549.35	880,730.55
Total surplus.....	961,329.19	1,695,895.48	2,144,180.55
Total liabilities, reserves and surplus. . .	11,907,826.86	15,249,203.36	17,683,264.07
Percentage of net debt to total assets....	88.0	88.3	. 80.3

NOTE.—In computing the percentage of net debt to total assets the sinking fund on local debentures and equity in H-E.P.C. systems are excluded from assets, and total liabilities are reduced by amount of local sinking fund.

BALANCE SHEET

1916	1917	1918	1919	1920
128	143	166	191	195
<div>\$c.</div> <div>1,335,936.33</div> <div>1,934,626.12</div> <div>4,832,353.27</div> <div>1,095,709.62</div> <div>1,179,132.07</div> <div>1,711,299.49</div> <div>1,251,057.13</div> <div>306,388.95</div> <div>2,059,263.42</div> <div>864,500.01</div> <div>759,748.66</div>	<div>\$c.</div> <div>1,546,241.41</div> <div>2,471,293.82</div> <div>6,090,073.42</div> <div>1,157,059.90</div> <div>1,483,839.44</div> <div>1,999,095.48</div> <div>1,237,734.69</div> <div>361,975.74</div> <div>2,184,015.84</div> <div>896,753.20</div> <div>649,852.51</div>	<div>\$c.</div> <div>1,859,888.69</div> <div>2,820,488.70</div> <div>6,627,237.39</div> <div>1,216,288.59</div> <div>1,772,691.35</div> <div>2,238,143.70</div> <div>1,200,625.65</div> <div>531,502.61</div> <div>2,395,096.50</div> <div>214,575.75</div> <div>1,476,413.00</div>	<div>\$c.</div> <div>1,995,545.83</div> <div>2,915,125.56</div> <div>7,445,820.31</div> <div>1,206,296.88</div> <div>2,073,113.45</div> <div>2,587,566.32</div> <div>1,206,638.71</div> <div>546,497.68</div> <div>2,530,101.08</div> <div>986,200.57</div> <div>805,959.89</div>	<div>\$c.</div> <div>2,175,568.24</div> <div>3,231,050.80</div> <div>8,579,881.49</div> <div>1,313,369.29</div> <div>2,560,581.59</div> <div>3,053,135.20</div> <div>1,269,006.98</div> <div>557,678.13</div> <div>2,697,636.12</div> <div>757,194.47</div> <div>864,298.39</div>
17,330,015.07	20,077,935.45	22,352,951.93	24,298,866.28	27,059,400.70
1,061,029.90	340,026.50	391,194.91	462,437.23	943,858.12
695,152.23	1,285,097.33	1,124,018.44	627,076.53	341,855.88
764,504.59	1,261,398.36	972,996.96	1,921,166.69	2,022,538.88
1,166,017.73	1,337,578.96	1,663,298.05	1,032,569.75	1,400,671.89
342,215.87	125,240.05	444,787.63	1,925,455.77	2,244,004.34
			369,071.89	577,584.06
			86,216.05	25,447.07
21,358,935.39	24,427,276.65	26,949,247.92	30,722,860.19	34,615,360.94
15,058,641.57	15,593,773.61	17,209,217.70	18,133,462.44	19,268,072.04
969,187.75	1,537,669.11	1,007,727.79	1,420,926.66	1,840,137.54
178,413.26	886,177.94	576,816.49	403,235.57	514,671.99
491,874.90	429,104.20	350,013.21	670,271.90	642,293.65
16,698,117.48	18,446,724.86	19,143,775.19	20,627,896.57	22,265,175.22
			373,871.89	577,584.06
1,843,804.68	2,463,723.83	3,133,550.17	3,750,162.28	4,788,645.03
1,843,804.68	2,463,723.83	3,133,550.17	4,124,034.17	5,366,229.09
549,778.59	694,797.90	920,076.56	1,328,657.68	1,440,156.52
1,165,785.94	1,340,615.38	1,662,602.69	1,754,020.37	2,246,474.47
1,101,448.70	1,481,414.68	2,089,243.31	2,888,251.40	3,297,325.64
2,817,013.23	3,516,827.96	4,671,922.56	5,970,929.45	6,983,956.63
21,358,935.39	24,427,276.65	26,949,247.92	30,722,860.19	34,615,360.94
78.4	75.5	71.0	67.9	65.4

## CONSOLIDATED

YEAR.....	1921	1922	1923
Number of municipalities included.....	215	226	235
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....	3,230,985.63	3,334,522.68	4,488,054.93
Substation equipment.....	5,403,689.90	5,046,857.98	6,015,919.75
Distribution system—overhead.....	8,397,361.48	11,165,330.24	13,135,581.76
Distribution system—underground.....	1,401,135.97	1,598,053.02	1,959,120.41
Line transformers.....	3,077,649.83	3,618,684.73	4,211,655.89
Meters.....	3,552,076.79	4,033,689.52	4,548,933.73
Street lighting equipment—regular.....	1,335,997.13	1,419,016.05	1,061,473.85
Street lighting equipment—ornamental.....	610,586.70	666,084.50	708,431.22
Miscellaneous construction expenses.....	3,030,134.16	3,261,495.74	3,681,274.88
Steam or hydraulic plant.....	704,848.46	565,158.54	566,619.86
Old plant.....	912,388.55	7,997,947.87	8,051,496.28
Total plant.....	31,656,854.60	42,706,840.87	48,428,562.56
Bank and cash balance.....	900,842.34	1,164,336.24	1,276,140.06
Securities and investments.....	477,678.69	443,938.18	1,153,424.47
Accounts receivable.....	2,155,788.62	3,874,317.14	3,198,769.34
Inventories.....	1,504,596.28	1,738,795.96	1,819,711.62
Sinking fund on local debentures.....	2,541,718.35	3,416,231.45	3,896,261.28
Equity in H-E.P.C. systems.....	795,570.51	1,543,434.12	2,929,603.94
Other assets.....	78,929.84	238,940.13	190,071.63
Total assets.....	40,111,979.23	55,126,834.09	62,892,544.90
<b>LIABILITIES</b>			
Debenture balance.....	21,619,220.99	30,454,186.12	33,056,501.29
Accounts payable.....	1,887,567.93	3,699,292.52	3,708,781.76
Bank overdraft.....	989,099.98	456,706.69	680,714.59
Other liabilities.....	938,368.84	586,203.02	1,517,828.47
Total liabilities.....	25,434,257.74	35,196,388.35	38,963,826.11
<b>RESERVES</b>			
For equity in H-E.P.C. systems.....	800,249.05	1,543,434.12	2,929,603.94
For depreciation.....	5,491,858.93	6,512,813.92	7,328,858.69
Other reserves.....			
Total reserves.....	6,292,107.98	8,056,248.04	10,258,462.63
<b>SURPLUS</b>			
Debentures paid.....	1,860,079.53	3,104,591.15	2,852,038.38
Local sinking fund.....	2,541,718.35	3,416,231.45	3,896,261.28
Operating surplus.....	3,983,815.63	5,353,375.10	6,921,956.50
Total surplus.....	8,385,613.51	11,874,197.70	13,670,256.16
Total liabilities, reserves and surplus.....	40,111,979.23	55,126,834.09	62,892,544.90
Percentage of net debt to total assets.....	64.7	63.3	62.6



## BALANCE SHEET—Continued

1924	1925	1926	1927	1928	1929
248	247	251	252	256	260
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,561,648.92	5,768,855.99	6,111,162.54	6,486,426.89	7,024,646.76	7,469,451.46
6,800,238.00	8,543,166.55	9,505,501.77	15,088,905.14	16,866,186.21	18,102,792.13
14,182,190.33	16,837,535.57	18,654,240.54	16,689,462.41	17,688,050.68	18,108,016.82
2,873,446.13	3,388,837.09	3,689,569.95	3,278,382.58	3,559,288.16	4,823,369.60
4,456,669.02	5,079,754.23	5,538,605.24	5,985,521.37	6,549,674.64	7,312,742.17
5,149,629.71	5,533,483.92	5,963,162.51	6,346,660.59	6,839,802.90	7,405,478.91
1,134,491.77	1,256,916.53	1,309,608.30	1,399,314.06	1,486,646.24	1,594,183.25
728,298.08	893,186.48	1,103,660.23	1,184,035.82	1,203,706.65	1,458,349.64
4,168,262.21	4,485,110.96	3,456,777.71	3,360,671.09	3,394,626.92	3,483,487.78
4,196,803.45	568,912.49	628,909.57	607,320.00	619,880.93	489,097.57
5,587,420.31	4,549,142.46	4,655,422.59	5,095,555.90	5,032,089.26	5,093,378.75
53,839,097.93	56,904,902.27	60,616,620.95	65,522,255.85	70,264,599.35	75,340,348.08
1,748,912.34	1,700,145.30	2,136,290.79	3,014,832.48	1,342,367.07	858,733.68
1,329,622.58	1,095,662.92	1,400,316.43	1,696,237.66	1,837,140.51	2,001,088.81
3,898,751.89	3,417,558.86	3,508,817.87	3,715,770.72	4,097,446.13	4,683,201.97
1,745,628.16	1,711,504.13	1,397,667.83	1,412,729.41	1,220,186.10	1,365,033.58
4,520,723.06	5,202,451.70	5,599,675.01	6,398,909.77	7,071,273.69	7,753,613.88
5,420,567.58	7,551,588.70	8,046,868.53	10,143,205.66	12,326,097.56	14,754,865.40
250,292.77	137,280.05	33,151.81	31,942.45	153,275.04	152,260.86
72,753,596.31	77,721,093.93	82,739,409.22	91,935,884.00	98,312,385.45	106,909,146.26
38,005,162.50	37,919,225.01	39,602,533.48	42,891,361.57	42,597,175.78	42,930,127.74
3,117,224.08	3,139,067.92	3,118,684.78	2,988,621.90	3,074,634.25	3,132,145.03
162,100.71	226,147.82	163,725.53	252,362.52	253,143.81	412,056.69
1,780,564.27	1,075,914.83	1,087,795.08	1,154,810.24	1,258,610.23	1,621,378.17
43,065,051.56	42,360,355.58	43,972,738.87	47,287,156.23	47,183,564.07	48,095,707.63
5,420,567.58	7,551,588.70	8,046,868.53	10,143,205.66	12,326,097.56	14,754,865.40
8,097,834.68	8,699,437.68	9,360,322.27	10,319,889.05	11,140,795.68	11,911,154.49
.....	1,157,147.20	947,970.23	1,002,916.69	1,117,257.63	1,437,371.26
13,518,402.26	17,408,173.58	18,355,161.03	21,466,011.40	24,584,150.87	28,103,391.15
3,530,610.35	4,440,138.34	5,493,879.83	6,648,767.38	7,928,907.61	9,194,253.59
4,520,723.06	5,202,451.70	5,599,675.01	6,398,909.77	7,071,273.69	7,962,121.20
8,118,809.08	8,309,974.73	9,317,954.48	10,135,039.22	11,544,489.21	13,553,672.69
16,170,142.49	17,952,564.77	20,411,509.32	23,182,716.37	26,544,670.51	30,710,047.48
72,753,596.31	77,721,093.93	82,739,409.22	91,935,884.00	98,312,385.45	106,909,146.26
61.4	57.2	55.5	54.2	50.8	47.8

## CONSOLIDATED BALANCE SHEET—Concluded

YEAR.....	1930	1931	1932
Number of municipalities included. . . . .	267	275	280
<b>ASSETS</b>	<b>\$</b> <b>c.</b>	<b>\$</b> <b>c.</b>	<b>\$</b> <b>c.</b>
Lands and buildings.....	7,936,974.31	8,407,664.48	9,503,743.78
Substation equipment.....	19,485,056.28	21,013,956.74	22,288,781.68
Distribution system—overhead.....	19,220,326.48	19,918,355.76	20,866,767.32
Distribution system—underground.....	4,932,189.05	5,361,627.24	5,820,056.75
Line transformers.....	7,953,090.23	8,649,875.07	9,392,662.62
Meters.....	7,840,948.07	8,106,202.88	8,403,251.67
Street lighting equipment—regular.....	1,780,785.67	2,205,613.18	2,257,618.20
Street lighting equipment—ornamental.....	1,520,891.01	1,456,742.91	1,545,354.93
Miscellaneous construction expenses.....	3,996,747.77	3,827,132.05	4,120,926.11
Steam or hydraulic plant.....	139,587.28	458,374.05	498,231.69
Old plant.....	5,322,690.14	7,146,437.96	4,989,654.97
Other plants not distributed.....			200,000.00
Total plant.....	80,129,286.29	86,551,982.32	89,887,049.72
Bank and cash balance.....	2,722,250.12	2,738,319.67	3,185,442.00
Securities and investments.....	1,909,439.11	1,999,846.42	2,059,325.10
Accounts receivable.....	4,481,006.92	3,957,972.78	3,683,059.42
Inventories.....	1,242,994.51	1,276,531.01	1,232,209.52
Sinking fund on local debentures.....	8,396,255.47	8,735,050.84	9,099,210.61
Equity in H-E.P.C. systems.....	17,346,372.44	20,103,275.76	23,066,129.81
Other assets.....	173,030.05	174,879.28	163,637.79
Total assets.....	116,400,634.91	125,537,858.08	132,376,063.97
<b>LIABILITIES</b>			
Debenture balance.....	45,091,808.06	44,594,400.03	45,133,305.97
Accounts payable.....	3,001,186.21	5,382,306.13	3,512,724.58
Bank overdraft.....	405,663.14	312,575.54	298,910.20
Other liabilities.....	1,642,771.59	1,909,986.13	3,740,376.11
Total liabilities.....	50,141,429.00	52,199,267.83	52,685,316.86
<b>RESERVES</b>			
For equity in H-E.P.C. systems.....	17,346,372.44	20,103,275.76	23,066,129.81
For depreciation.....	12,885,387.51	13,748,049.68	14,902,177.02
Other reserves.....	1,574,655.74	1,693,129.83	1,902,308.64
Total reserves.....	31,806,415.69	35,544,455.27	39,870,615.47
<b>SURPLUS</b>			
Debentures paid.....	10,728,279.15	13,150,040.37	15,244,778.28
Local sinking fund.....	8,396,255.47	8,735,050.84	9,099,210.61
Operating surplus.....	15,328,255.60	15,909,043.77	15,476,142.75
Total surplus.....	34,452,790.22	37,794,134.98	39,820,131.64
Total liabilities, reserves and surplus. . .	116,400,634.91	125,537,858.08	132,376,063.97
Percentage of net debt to total assets. . .	46.0	44.1	43.4

NOTE.—In computing the percentage of net debt to total assets the sinking fund on local debentures and equity in H-E.P.C. systems are excluded from assets, and total liabilities are reduced by the amount of local sinking fund.

## CONSOLIDATED OPERATING REPORT

YEAR.....	1912	1913	1914	1915
Number of municipalities included....	28	45	69	99
<b>EARNINGS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Domestic service.....		572,154.38	789,130.81	944,271.08
Commercial light service.....		525,438.16	673,803.92	720,209.26
Commercial power service.....		905,378.17	1,214,829.31	1,501,797.78
Municipal power.....				
Street lighting.....		560,925.56	698,409.71	835,970.87
Rural service.....				
Miscellaneous.....		53,543.24	57,482.41	68,046.29
Total earnings.....	1,617,674.00	2,617,439.51	3,433,656.16	4,070,295.28
<b>EXPENSES</b>				
Power purchased.....		789,632.87	1,045,752.65	1,484,666.00
Substation operation.....		78,394.81	97,658.90	107,607.31
Substation maintenance.....		18,698.46	31,790.99	25,935.56
Distribution system, operation and maintenance.....		104,114.51	130,998.65	154,409.71
Line transformer maintenance.....		8,547.61	11,764.32	11,508.92
Meter maintenance.....		5,222.19	9,536.07	12,899.14
Consumers' premises expenses.....		53,108.38	65,192.23	47,494.26
Street lighting, operation and maintenance.....		84,903.76	113,047.80	136,983.38
Promotion of business.....		72,303.51	86,683.02	74,402.55
Billing and collecting.....		77,351.76	103,560.71	131,541.27
General office, salaries and expenses.....		154,932.69	230,899.75	236,777.86
Undistributed expense.....		65,423.64	89,350.91	129,209.15
Interest.....		528,549.21	662,092.34	817,978.89
Sinking fund and principal payments on debentures.....		*	*	*
Total expenses.....	1,377,168.00	2,041,183.40	2,678,328.34	3,371,414.00
Surplus.....	240,506.00	576,256.11	755,327.82	698,881.28
Depreciation charge.....	124,992.47	262,675.24	357,883.31	414,506.99
Surplus less depreciation.....	115,513.53	313,580.87	397,444.51	284,374.29

\*Debenture payments included in "Interest."



## CONSOLIDATED

YEAR.....	1916	1917	1918
Number of municipalities included.....	128	143	166
<b>EARNINGS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Domestic service.....	1,172,878.96	1,417,460.31	1,632,272.12
Commercial light service.....	812,130.78	899,023.72	968,399.42
Commercial power service.....	1,921,152.31	2,665,280.65	3,417,248.37
Municipal power.....			
Street lighting.....	930,057.48	967,495.10	902,875.55
Rural service.....			
Miscellaneous.....	147,381.50	120,805.39	161,243.70
Total earnings.....	4,983,601.03	6,070,065.17	7,082,039.16
<b>EXPENSES</b>			
Power purchased.....	1,959,446.83	2,573,879.37	2,807,769.33
Substation operation.....	153,761.08	203,091.20	238,257.34
Substation maintenance.....	46,131.53	42,129.04	60,805.92
Distribution system, operation and maintenance.....	154,247.17	169,326.24	223,347.81
Line transformer maintenance.....	14,528.17	25,328.95	30,488.83
Meter maintenance.....	24,218.48	44,461.55	63,155.56
Consumers' premises expenses.....	52,602.01	61,765.14	65,149.59
Street lighting, operation and maintenance.....	145,471.50	157,857.73	196,157.18
Promotion of business.....	79,324.85	73,516.37	64,962.78
Billing and collecting.....	154,508.58	188,083.84	208,660.76
General office, salaries and expenses....	306,709.35	349,932.05	421,680.15
Undistributed expense.....	97,333.97	102,938.80	117,474.07
Interest.....	951,781.99	1,085,180.80	1,238,425.53
Sinking fund and principal payments on debentures.....	*	*	*
Total expenses.....	4,140,065.51	5,077,491.08	5,736,334.85
Surplus.....	843,535.52	992,574.09	1,345,704.31
Depreciation charge.....	486,141.80	607,296.29	718,162.30
Surplus less depreciation.....	357,393.72	385,277.80	627,542.01

\*Debenture payments included in "Interest."

## OPERATING REPORT—Continued

1919	1920	1921	1922	1923	1924
181	186	205	214	224	241
\$ c. 1,991,632.31 1,175,143.56 3,443,107.13 ..... 988,900.95 ..... 228,270.65	\$ c. 2,546,345.30 1,512,854.63 3,752,188.22 532,279.09 1,005,535.11 168,919.95 189,778.63	\$ c. 3,149,080.03 1,851,501.76 3,895,437.46 654,531.01 1,060,357.77 145,566.57 225,467.70	\$ c. 3,786,608.23 2,158,306.34 4,383,912.97 973,263.38 1,160,446.81 105,877.09 187,689.39	\$ c. 5,166,452.24 3,260,772.50 5,927,666.37 1,161,598.60 1,269,604.48 116,639.06 316,311.21	\$ c. 5,993,231.07 3,566,227.22 6,222,865.88 1,352,966.47 1,356,668.97 75,100.24 231,663.58
7,827,054.60	9,707,900.93	10,981,942.30	12,756,104.21	17,219,044.46	18,798,723.43
3,284,490.68 217,638.89 81,853.63  286,310.76 42,509.12 78,726.64 84,301.24  215,963.86 74,789.22 236,504.75 452,131.22 190,690.09 1,285,571.51  *  6,531,481.61	4,216,667.87 285,407.35 102,050.81  344,551.57 46,323.09 123,701.18 116,283.52  236,930.79 78,294.85 295,942.88 559,695.29 256,400.33 1,431,807.16  *  8,094,056.69	4,876,650.31 314,838.35 104,798.01  487,918.33 65,088.46 116,722.97 134,854.92  297,481.52 101,804.46 321,685.71 656,268.11 308,874.42 998,611.47  532,183.96  9,317,781.00	6,636,853.37 315,443.70 100,763.67  519,252.16 52,932.26 107,806.88 143,388.88  297,363.86 129,932.63 338,153.50 605,852.50 385,895.03 1,074,657.44  635,469.90  11,343,765.78	8,699,026.67 474,442.13 133,815.53  636,477.41 75,920.10 139,104.81 218,682.02  299,579.08 184,371.00 444,306.92 937,463.47 359,206.91 1,615,205.16  990,907.14  15,208,508.35	9,669,789.40 430,056.09 202,050.04  648,700.62 82,936.50 141,231.23 237,316.20  269,973.30 202,060.74 490,273.30 889,907.66 494,078.50 1,779,991.26  1,122,798.87  16,661,163.71
1,295,572.99 814,219.37  481,353.62	1,613,844.24 902,028.75  711,815.49	1,664,161.30 1,044,434.85  619,726.45	1,412,338.43 715,814.24  696,524.19	2,010,536.11 916,782.75  1,093,753.36	2,137,559.72 973,649.62  1,163,910.10

## CONSOLIDATED

YEAR.....	1925	1926	1927
Number of municipalities included.....	242	248	251
<b>EARNINGS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Domestic service.....	6,439,159.86	7,372,602.62	8,189,866.89
Commercial light service.....	3,866,292.79	4,187,899.19	4,626,815.51
Commercial power service.....	6,568,854.77	6,789,217.54	7,342,173.20
Municipal power.....	1,923,093.09	1,922,512.34	1,913,502.88
Street lighting.....	1,415,382.22	1,457,686.21	1,489,242.37
Rural service.....	37,975.18	37,810.73	13,765.72
Miscellaneous.....	286,451.08	471,134.15	581,913.04
Total earnings.....	20,537,208.99	22,238,862.78	24,157,279.61
<b>EXPENSES</b>			
Power purchased.....	11,063,123.34	12,185,669.10	13,505,583.77
Substation operation.....	417,921.71	450,416.84	430,211.76
Substation maintenance.....	207,497.63	286,520.37	275,148.86
Distribution system, operation and maintenance.....	686,344.54	795,514.70	758,747.10
Line transformer maintenance.....	75,473.28	74,876.11	94,706.38
Meter maintenance.....	156,909.55	189,603.70	214,813.87
Consumers' premises expenses.....	252,808.47	275,020.62	285,352.68
Street lighting, operation and maintenance.....	275,316.60	295,869.37	318,395.79
Promotion of business.....	217,102.24	234,696.74	220,687.60
Billing and collecting.....	521,134.01	557,271.54	605,627.58
General office, salaries and expenses....	891,640.29	786,742.60	824,868.90
Undistributed expense.....	520,584.58	460,288.30	531,003.80
Truck operation and maintenance.....			
Interest.....	1,889,810.95	1,985,233.73	2,063,698.00
Sinking fund and principal payments on debentures.....	1,294,027.29	1,347,511.92	1,505,626.31
Total expenses.....	18,469,694.48	19,925,235.64	21,634,472.40
Surplus.....	2,067,514.51	2,313,627.14	2,522,807.21
Depreciation charge.....	1,068,880.42	1,146,273.05	1,249,711.65
Surplus less depreciation.....	998,634.09	1,167,354.09	1,273,095.56



## OPERATING REPORT—Concluded

1928	1929	1930	1931	1932
255	259	267	275	280
\$ c. 8,925,050.56 5,182,723.32 8,298,669.44 1,921,300.97 1,534,476.98 48,451.90* 465,791.92	\$ c. 9,873,681.57 5,697,766.06 9,376,158.74 2,086,444.24 1,598,262.43 51,590.54* 522,780.95	\$ c. 10,542,903.89 5,961,383.23 9,340,653.28 2,111,482.38 1,674,528.03 28,954.60* 581,914.78	\$ c. 10,972,952.10 6,230,475.89 9,456,224.97 1,967,118.54 1,746,855.24 29,446.38* 511,139.80	\$ c. 11,447,307.85 6,243,794.01 9,356,693.88 1,859,585.35 1,783,972.46 11,069.27* 513,787.30
26,376,465.09	29,206,684.53	30,241,820.19	30,914,212.92	31,216,210.12
14,688,570.08 420,512.48 247,647.88	16,379,162.88 461,270.27 274,275.56	17,323,077.97 479,502.48 320,716.48	18,085,166.51 487,484.17 303,536.11	19,109,036.25 503,351.82 300,186.15
736,159.85 88,676.18 218,530.96 291,333.03	907,817.04 93,608.14 242,126.27 314,495.03	991,972.86 96,746.35 278,379.43 317,902.45	1,015,256.14 93,463.24 284,633.88 363,078.47	969,750.61 95,485.55 300,104.85 368,208.73
329,597.16 249,842.01 638,797.02 844,578.55 542,755.34	359,373.40 250,844.28 695,729.42 904,025.64 502,206.06	372,211.17 249,070.05 745,159.02 907,226.89 523,862.96	368,119.49 255,956.03 792,983.99 923,676.84 520,893.10	360,709.76 266,760.84 818,721.33 960,558.88 436,692.96
..... 2,111,049.49	110,630.62 2,152,695.49	112,029.82 2,220,214.45	107,918.93 2,328,094.32	112,059.90 2,532,940.93
1,601,711.32	1,687,201.64	1,828,061.62	2,061,718.79	2,244,367.86
23,009,761.35	25,335,461.74	26,766,134.00	27,991,980.01	29,378,936.42
3,366,703.74 1,350,252.16	3,871,222.79 1,469,846.83	3,475,686.19 1,574,991.68	2,922,232.91 1,775,330.69	1,837,273.70 1,920,896.22
2,016,451.58	2,401,375.96	1,900,694.51	1,146,902.22	83,622.52 (loss)

\*Profits from the sale of merchandise. Rural service now given in "Rural Power Districts." Consult Section IX.

## STATEMENT

## Balance Sheets of Electrical Departments of

NIAGARA  
SYSTEM

Municipality.....	Acton	Agincourt	Ailsa Craig 498	Alvinston	Amherst- burg 3,112
Population.....	1,930	P.V.		677	
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....	1,545.45			133.56	
Substation equipment.....	1,847.39				932.00
Distribution system—overhead...	23,077.63	8,481.56	8,169.69	14,008.12	31,745.82
Distribution system—underground					
Line transformers.....	11,260.66	3,678.83	1,946.95	3,024.48	15,548.45
Meters.....	10,353.57	2,416.09	2,571.67	2,972.37	15,276.72
Street light equipment, regular....	1,862.15	755.30	404.09	1,090.62	812.44
Street light equipment, ornamental					5,598.72
Miscellaneous construction expense	2,467.85		492.36	791.52	1,686.45
Steam or hydraulic plant.....					
Old plant.....	3,481.50			773.85	
Other plants not distributed.....					
Total plant.....	55,896.20	15,331.78	13,584.76	22,794.52	71,600.60
Bank and cash balance.....	3,989.50	2,454.10	1,398.87	794.55	10,616.19
Securities and investments.....	1,500.00	1,000.00	5,000.00	2,000.00	1,898.30
Accounts receivable.....	426.91	472.70	1,385.37	289.29	5,450.58
Inventories.....	671.64				
Sinking fund on local debentures...					
Equity in H-E.P.C. systems.....	30,489.17	4,431.65	8,769.61	8,603.59	24,324.08
Other assets.....					3,410.25
Total assets.....	92,973.42	23,690.23	30,138.61	34,481.95	117,300.00
Deficit.....				2,935.91	
Total.....	92,973.42	23,690.23	30,138.61	37,417.86	117,300.00
<b>LIABILITIES</b>					
Debenture balance.....	649.58	4,000.13		13,498.76	26,481.06
Accounts payable.....	20.80	45.04	417.20	981.42	2,155.33
Bank overdraft.....					
Other liabilities.....	418.39		60.00		7,319.27
Total liabilities.....	1,088.77	4,045.17	477.20	14,480.18	35,955.66
<b>RESERVES</b>					
For equity in H-E.P.C. systems...	30,489.17	4,431.65	8,769.61	8,603.59	24,324.08
For depreciation.....	8,766.35	1,195.09	4,723.27	4,303.61	13,364.69
Other reserves.....					
Total reserves.....	39,255.52	5,626.74	13,492.88	12,907.20	37,688.77
<b>SURPLUS</b>					
Debentures paid.....	13,850.42	4,072.52	6,883.38	10,030.48	5,572.54
Local sinking fund.....					
Operating surplus.....	38,778.71	9,945.80	9,285.15		38,083.03
Total surplus.....	52,629.13	14,018.32	16,168.53	10,030.48	43,655.57
Total liabilities, reserves and surplus	92,973.42	23,690.23	30,138.61	37,417.86	117,300.00
Percentage of net debt to total assets	1.0	21.0	2.2	55.9	32.6

“A”

Hydro Municipalities as at December 31, 1932

Ancaster Twp.	Arkona 397	Aylmer 1,998	Ayr 806	Baden P.V.	Beachville P.V.	Belle River 734	Blenheim 1,613
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	9,019.23	125.00	660.64	176.13	.....	.....
15,541.14	9,431.42	20,344.47	12,354.19	7,377.08	14,440.79	14,815.14	909.64
10,006.29	1,976.44	10,356.91	3,850.56	4,048.22	3,550.21	3,651.15	8,091.14
4,202.68	1,680.67	9,449.72	3,554.33	2,841.20	3,085.10	3,479.53	10,050.01
1,269.78	671.60	1,543.38	628.42	447.45	410.35	924.29	3,262.40
.....	.....	.....	.....	.....	.....	.....	1,482.97
294.93	228.84	1,144.82	941.79	.....	602.04	962.78	1,248.26
.....	1,030.30	6,719.17	4,002.53	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
31,314.82	15,019.27	58,577.70	25,456.82	15,374.59	22,264.62	23,832.89	50,813.88
.....	.....	5,332.06	252.44	2,429.15	2,321.60	3,816.48	1,789.45
.....	.....	12,000.00	.....	.....	7,000.00	3,000.00	.....
1,688.13	215.32	2,532.70	947.29	656.77	1,475.88	1,974.58	403.19
.....	.....	54.61	.....	.....	.....	.....	.....
7,212.25	2,479.38	20,336.07	7,296.42	17,660.88	21,529.77	4,555.41	19,103.52
.....	146.68	.....	517.29	.....	.....	19.29	.....
40,215.20	17,860.65	98,833.14	34,470.26	36,121.39	54,591.87	37,198.65	72,110.04
.....	1,642.64	.....	.....	.....	.....	.....	.....
40,215.20	19,503.29	98,833.14	34,470.26	36,121.39	54,591.87	37,198.65	72,110.04
.....	.....	.....	.....	.....	.....	.....	.....
8,212.58	10,299.30	21,489.20	7,298.12	2,311.87	2,509.81	5,844.73	9,004.07
774.91	2,727.45	184.26	658.26	.....	3,876.32	.....	496.16
1,263.44	49.37	.....	.....	.....	.....	.....	.....
149.70	.....	80.00	5.00	.....	.....	30.00	1,712.97
10,400.63	13,076.12	21,753.46	7,961.38	2,311.87	6,386.13	5,874.73	11,213.20
.....	.....	.....	.....	.....	.....	.....	.....
7,212.25	2,479.38	20,336.07	7,296.42	17,660.88	21,529.77	4,555.41	19,103.52
5,480.26	1,134.26	10,179.14	3,161.68	1,531.19	4,157.88	4,050.02	10,735.67
.....	.....	.....	.....	.....	.....	5,000.00	.....
12,692.51	3,613.64	30,515.21	10,458.10	19,192.07	25,687.65	13,605.43	29,839.19
.....	.....	.....	.....	.....	.....	.....	.....
2,577.00	2,813.53	17,212.72	10,205.26	2,688.13	2,843.19	2,655.27	4,995.93
14,545.06	.....	29,351.75	5,845.52	11,929.32	19,674.90	15,063.22	26,061.72
17,122.06	2,813.53	46,564.47	16,050.78	14,617.45	22,518.09	17,718.49	31,057.65
40,215.20	19,503.29	98,833.14	34,470.26	36,121.39	54,591.87	37,198.65	72,110.04
31.5	85.0	27.7	29.3	12.5	19	18.0	18.9



## STATEMENT

## Balance Sheets of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Blyth	Bolton	Bothwell	Brampton	Brantford
Population.....	610	582	653	5,012	30,153
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....				5,081.32	88,256.71
Substation equipment.....				24,742.53	164,611.45
Distribution system—overhead...	11,192.95	9,931.57	6,009.41	49,247.36	240,516.38
Distribution system—underground					6,000.00
Line transformers.....	2,441.35	4,296.34	2,575.37	26,186.18	111,620.73
Meters.....	1,945.31	2,926.32	2,794.96	25,565.03	114,553.44
Street light equipment, regular....	1,284.19	817.19	203.51	2,645.94	24,127.20
Street light equipment, ornamental			4,431.19		37,500.00
Miscellaneous construction expense	289.31	1,043.38	515.26	18,377.87	32,319.27
Steam or hydraulic plant.....					
Old plant.....	2,332.68	1,554.60			
Other plants not distributed.....					200,000.00
Total plant.....	19,485.79	20,569.40	16,529.70	151,846.23	1,019,505.18
Bank and cash balance.....	160.03	87.28	3,137.51	2,830.18	
Securities and investments.....			11,000.00	5,990.65	
Accounts receivable.....	957.89	749.20	120.97	4,955.36	58,129.61
Inventories.....		26.20		168.87	12,841.98
Sinking fund on local debentures...					191,046.88
Equity in H-E.P.C. systems.....	4,300.59	9,735.02	10,281.55	83,343.96	422,457.46
Other assets.....	23.30	27.31			11,981.31
Total assets.....	24,927.60	31,194.41	41,069.73	249,135.25	1,715,962.42
Deficit.....					
Total.....	24,927.60	31,194.41	41,069.73	249,135.25	1,715,962.42
<b>LIABILITIES</b>					
Debenture balance.....	9,992.92	6,549.80	3,215.68	15,850.87	*571,750.00
Accounts payable.....	155.72	107.50	1,758.82	4,253.26	9,731.18
Bank overdraft.....					9,357.20
Other liabilities.....	35.00		15.00		50,914.56
Total liabilities.....	10,183.64	6,657.30	4,989.50	20,104.13	641,752.94
<b>RESERVES</b>					
For equity in H-E.P.C. systems...	4,300.59	9,735.02	10,281.55	83,343.96	422,457.46
For depreciation.....	2,363.50	4,590.95	5,267.57	39,341.19	197,310.44
Other reserves.....					1,000.00
Total reserves.....	6,664.09	14,325.97	15,549.12	122,685.15	620,767.90
<b>SURPLUS</b>					
Debentures paid.....	6,276.11	5,950.20	2,318.51	53,199.77	158,250.00
Local sinking fund.....					191,046.88
Operating surplus.....	1,803.76	4,260.94	18,212.60	53,146.20	104,144.70
Total surplus.....	8,079.87	10,211.14	20,531.11	106,345.97	453,441.58
Total liabilities, reserves and surplus	24,927.60	31,194.41	41,069.73	249,135.25	1,715,962.42
Percentage of net debt to total assets	49.4	31.0	14.6	12.1	37.9

\*Includes a balance of \$178,000.00 on purchase agreement.

## "A"—Continued

## Hydro Municipalities as at December 31, 1932

Brantford Twp.	Bridgeport P.V.	Bridgen P.V.	Brussels 726	Burford P.V.	Burgess- ville P.V.	Caledonia 1,400	Campbell- ville P.V.
\$ c.	\$ c.	\$ c. 101.03	\$ c.	\$ c. 202.00	\$ c.	\$ c.	\$ c.
1,192.71							
52,751.86	9,279.74	7,065.39	13,536.99	9,240.38	3,473.03	16,399.94	2,954.27
17,252.81	3,729.46	2,037.61	2,395.35	2,933.19	1,238.44	5,612.06	718.23
11,924.29	2,217.15	2,238.85	3,687.43	3,280.33	966.40	6,058.46	534.39
4,246.66	1,586.99	464.90	1,574.74	425.14	261.02	1,582.94	258.56
2,911.36	563.56	858.11	1,572.29	725.40	457.22	707.63	45.82
		1,381.00	2,827.50				
90,279.69	17,376.90	14,146.89	25,594.30	16,806.44	6,396.11	30,361.03	4,511.27
5,502.46		1.73	472.23	1,042.60	1,708.10	1,087.91	590.96
566.43	760.42	1,092.63	1,189.47	4,000.00		2,000.00	1,000.00
				621.27	444.30	459.39	180.90
				24.48			
3,012.05							
13,452.30	2,140.43	6,369.01	6,152.76	6,884.05	2,885.11	11,031.56	731.40
			30.41				
112,812.93	20,277.75	21,610.26	33,439.17	29,378.84	11,433.62	44,939.89	7,014.53
112,812.93	20,277.75	21,610.26	33,439.17	29,378.84	11,433.62	44,939.89	7,014.53
26,620.18	11,914.39	1,173.08	14,220.66	746.02	814.59	2,020.88	3,850.64
1,431.64	1,228.99	510.41	12.01		688.85	20.77	
	7.70						
1,323.30	29.98			19.00			
29,375.12	13,181.06	1,683.49	14,232.67	765.02	1,503.44	2,041.65	3,850.64
13,452.30	2,140.43	6,369.01	6,152.76	6,884.05	2,885.11	11,031.56	731.40
18,400.46	3,971.84	2,746.79	3,455.41	3,580.20	2,033.83	4,038.06	564.54
31,852.76	6,112.27	9,115.80	9,608.17	10,464.25	4,918.94	15,069.62	1,295.94
30,505.48	453.64	6,826.92	6,779.34	8,253.98	2,685.41	2,603.12	1,597.13
3,012.05							
18,067.52	530.78	3,984.05	2,818.99	9,895.59	2,325.83	25,225.50	270.82
51,585.05	984.42	10,810.97	9,598.33	18,149.57	5,011.24	27,828.62	1,867.95
112,812.93	20,277.75	21,610.26	33,439.17	29,378.84	11,433.62	44,939.89	7,014.53
30.5	72.7	11.0	52.2	3.4	17.5	6.0	61.2

## STATEMENT

## Balance Sheets of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Cayuga	Chatham	Chippawa	Clifford	Clinton
Population.....	660	16,434	1,243	515	1,873
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....		46,055.45	631.50		8,760.82
Substation equipment.....		116,470.33			7,544.43
Distribution system—overhead... 14,406.36		159,739.46	18,854.67	7,321.06	21,805.97
Distribution system—underground		79,554.42			
Line transformers..... 3,090.29		86,692.91	5,570.56	1,005.30	7,516.75
Meters..... 2,592.93		67,929.84	4,702.80	2,155.40	9,039.79
Street light equipment, regular.... 942.83		17,924.96	1,869.16	670.59	1,297.67
Street light equipment, ornamental		35,426.10			
Miscellaneous construction expense	372.67	33,005.10	1,022.19	37.44	3,857.83
Steam or hydraulic plant.....					
Old plant.....		42,752.31			10,658.09
Other plants not distributed.....					
Total plant.....	21,405.08	685,550.88	32,650.88	11,189.79	70,481.35
Bank and cash balance.....	1,795.59	5,031.60	735.48	282.43	1,042.39
Securities and investments.....					3,000.00
Accounts receivable..... 970.39		23,646.29	1,161.58	330.95	1,446.91
Inventories..... 152.28		4,774.28		23.66	2,276.41
Sinking fund on local debentures..					30,131.03
Equity in H-E.P.C. systems..... 3,963.76		201,478.05	8,793.10	2,953.16	23,720.24
Other assets.....		3,113.39		17.54	
Total assets.....	28,287.10	923,594.49	43,341.04	14,797.53	132,098.33
Deficit.....					
Total.....	28,287.10	923,594.49	43,341.04	14,797.53	132,098.33
<b>LIABILITIES</b>					
Debenture balance..... 14,423.84		259,643.82	7,169.91	6,926.31	44,500.00
Accounts payable..... 699.02		22,696.32		87.87	86.57
Bank overdraft.....					
Other liabilities.....		38,539.49			62.22
Total liabilities.....	15,122.86	320,879.63	7,169.91	7,014.18	44,648.79
<b>RESERVES</b>					
For equity in H-E.P.C. systems... 3,963.76		201,478.05	8,793.10	2,953.16	23,720.24
For depreciation..... 2,938.68		97,317.51	6,225.75	1,376.34	18,662.77
Other reserves..... 252.94		5,360.18			682.22
Total reserves.....	7,155.38	304,155.74	15,018.85	4,329.50	43,065.23
<b>SURPLUS</b>					
Debentures paid..... 5,576.16		110,356.18	6,180.09	1,073.69	
Local sinking fund.....					30,131.03
Operating surplus..... 432.70		188,202.94	14,972.19	2,380.16	14,253.28
Total surplus.....	6,008.86	298,559.12	21,152.28	3,453.85	44,384.31
Total liabilities, reserves and surplus	28,287.10	923,594.49	43,341.04	14,797.53	132,098.33
Percentage of net debt to total assets	62.2	41.3	20.8	59.2	18.6



## “A”—Continued

## Hydro Municipalities as at December 31, 1932

Comber P.V.	Cottam P.V.	Courtright 353	Dashwood P.V.	Delaware P.V.	Dorchester P.V.	Drayton 552	Dresden 1,451
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,231.00	9,056.31	6,515.06	3,402.64	3,758.63	8,040.88	9,281.73	523.00 18,062.13
3,422.04	1,538.31	1,225.40	1,600.44	914.44	3,286.91	3,251.98	7,280.17
2,459.87	1,803.64	880.37	1,378.45	962.46	2,411.76	3,254.24	5,887.55
384.93	359.43	425.08	353.42	148.08	496.74	673.50	1,127.48
983.54	206.27	558.67	291.87	203.81	328.41	388.37	525.20
							4,815.01
14,481.38	12,963.96	9,604.58	7,026.82	5,987.42	14,564.70	16,849.82	38,220.54
2,264.33	2,643.24	615.07	1,114.60	773.89	1,027.79	1,035.45	925.04
597.54	358.60	118.65	1,500.00	2,500.00	2,000.00	5,000.00	1,000.00
			326.28	117.34	773.82		1,159.95
							382.75
10,263.00	1,581.57	2,702.70	4,499.23	1,426.14	3,550.96	6,029.19	16,065.52
31.25	14.73		16.50			76.50	100.00
27,637.50	17,562.10	13,041.00	14,483.43	10,804.79	21,917.27	28,990.96	57,853.80
27,637.50	17,562.10	13,041.00	14,483.43	10,804.79	21,917.27	28,990.96	57,853.80
2,106.10	7,222.25	4,101.91	2,242.75	2,306.02	2,627.87	6,703.06	1,417.47
			26.31		7.62	1,018.77	
16.37	145.72				5.00		100.00
2,122.47	7,367.97	4,101.91	2,269.06	2,306.02	2,640.49	7,721.83	1,517.47
10,263.00	1,581.57	2,702.70	4,499.23	1,426.14	3,550.96	6,029.19	16,065.52
4,101.27	2,084.63	888.15	1,722.02	724.58	1,250.97	4,644.66	4,404.33
14,364.27	3,666.20	3,590.85	6,221.25	2,150.72	4,801.93	10,673.85	20,469.85
5,593.90	1,777.97	4,036.44	1,157.25	1,693.98	1,672.13	2,796.94	14,820.78
5,556.86	4,749.96	1,311.80	4,835.87	4,654.07	12,802.72	7,798.34	21,045.70
11,150.76	6,527.93	5,348.24	5,993.12	6,348.05	14,474.85	10,595.28	35,866.48
27,637.50	17,562.10	13,041.00	14,483.43	10,804.79	21,917.27	28,990.96	57,853.80
12.2	46.1	39.6	22.7	24.6	14.4	33.6	3.4

## STATEMENT

## Balance Sheets of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Drumbo	Dublin	Dundas	Dunnville	Dutton
Population.....	P.V.	P.V.	5,137	3,506	785
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....			12,084.26	3,328.13	135.19
Substation equipment.....			13,396.22	27,302.17	
Distribution system—overhead... 4,426.33	5,787.61		50,052.10	36,532.92	9,366.86
Distribution system—underground					
Line transformers..... 1,417.47	897.65		19,610.94	17,262.44	3,425.25
Meters..... 1,863.92	874.11		20,345.01	15,349.32	3,259.83
Street light equipment, regular... 262.27	544.86		10,808.96	8,048.19	626.14
Street light equipment, ornamental					
Miscellaneous construction expense 257.95	787.06		8,055.01	6,036.59	313.42
Steam or hydraulic plant.....					
Old plant.....			1,867.38	10,717.62	
Other plants not distributed.....					
Total plant.....	8,227.94	8,891.29	136,219.88	124,577.38	17,126.69
Bank and cash balance.....	2,027.81	121.19	4,241.75	35.00	196.77
Securities and investments.....			1,500.00	10,000.00	4,000.00
Accounts receivable..... 547.57	297.36		4,719.04	7,381.94	1,266.46
Inventories..... 70.03			532.07	875.50	43.15
Sinking fund on local debentures..					
Equity in H-E.P.C. systems..... 3,272.85	3,030.15		75,080.63	28,253.22	9,972.54
Other assets.....			2,533.04		40.06
Total assets.....	14,146.20	12,339.99	224,826.41	171,123.04	32,645.67
Deficit.....		573.36			
Total.....	14,146.20	12,913.35	224,826.41	171,123.04	32,645.67
<b>LIABILITIES</b>					
Debenture balance..... 2,594.54	1,787.48		27,941.72	52,416.14	5,099.44
Accounts payable..... 19.25	951.34			8,826.10	
Bank overdraft.....				5,061.45	
Other liabilities.....			2,012.91	1,047.00	32.36
Total liabilities.....	2,613.78	2,738.82	29,954.63	67,350.69	5,131.80
<b>RESERVES</b>					
For equity in H-E.P.C. systems... 3,272.85	3,030.15		75,080.63	28,253.22	9,972.54
For depreciation..... 2,705.29	2,731.86		39,077.62	21,966.34	5,403.77
Other reserves.....			335.00		
Total reserves.....	5,978.14	5,762.01	114,493.25	50,219.56	15,376.31
<b>SURPLUS</b>					
Debentures paid..... 1,905.47	4,412.52		25,058.28	23,083.86	3,308.05
Local sinking fund.....					
Operating surplus..... 3,648.81			55,320.25	30,468.93	8,829.51
Total surplus.....	5,554.28	4,412.52	80,378.53	53,552.79	12,137.56
Total liabilities, reserves and surplus	14,146.20	12,913.35	224,826.41	171,123.04	32,645.67
Percentage of net debt to total assets	24.0	29.4	20.	47.1	22.6

## “A”—Continued

## Hydro Municipalities as at December 31, 1932

East Windsor 16,081	East York Twp.	Elmira 2,761	Elora 1,317	Embro 437	Erieau 260	Erie Beach 20	Essex 1,888
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
173,850.33	16,946.49 8,217.77 276,206.18	6,158.85	1,524.54	9,572.87	9,174.93	1,885.95	35,741.19
75,277.65	71,566.07	15,849.98	7,301.95	3,039.64	1,489.71	613.17	442.55
60,983.69	137,419.45	12,718.51	5,710.72	2,012.55	2,228.15	696.24	14,177.76
89,295.42	20,389.08	1,381.05	1,235.43	535.73	241.10		10,392.28
3,439.78	16,085.32	4,123.40	1,417.87	69.45	379.90	375.03	1,503.60
		2,168.08	1,425.47	429.25			2,666.71
402,846.87	546,830.36	77,258.69	35,696.53	15,659.49	13,513.79	3,570.39	64,924.09
62,968.69	8,421.69	665.26	736.37	34.13		230.10	6,019.27
14,345.39	2,931.90		6,000.00	1,000.00			5,000.00
	19,035.28	810.86	1,566.81	910.77	323.71	288.91	3,342.06
	8,834.22	75.25	631.41				
112,802.85	97,749.41	43,020.82	20,786.44	5,897.84	2,478.25	643.18	13,873.16
592,963.80	683,802.86	121,830.88	65,417.56	23,502.23	16,315.75	4,732.58	93,158.58
592,963.80	683,802.86	121,830.88	65,417.56	23,502.23	16,315.75	4,732.58	93,158.58
105,424.18	274,818.07	26,161.06	4,481.25	3,650.29	4,865.13	2,674.34	19,480.27
14,486.25	35,451.13	3,215.94	2.00	135.95	538.12	59.12	1,021.81
	4,838.34				1,038.52		566.84
89,295.42	12,709.10	654.29	40.00				
209,205.85	327,816.64	30,031.29	4,523.25	3,786.24	6,441.77	2,733.46	21,068.92
112,802.85	97,749.41	43,020.82	20,786.44	5,897.84	2,478.25	643.18	13,873.16
39,194.94	52,083.84	14,196.17	10,290.95	4,326.15	1,481.50	292.36	9,504.59
745.62	1,450.87						700.00
152,743.41	151,284.12	57,216.99	31,077.39	10,223.99	3,959.75	935.54	24,077.75
43,575.82	82,249.71	11,007.44	8,518.75	3,849.71	2,018.00	625.66	3,019.73
187,438.72	122,452.39	23,575.16	21,298.17	5,642.29	3,896.23	437.92	44,992.18
231,014.54	204,702.10	34,582.60	29,816.92	9,492.00	5,914.23	1,063.58	48,011.91
592,963.80	683,802.96	121,830.88	65,417.56	23,502.23	16,315.75	4,732.58	93,158.58
30.1	56.1	38.1	10.0	21.5	46.6	67.0	26.6



# STATEMENT

## Balance Sheets of Electrical Departments of

### NIAGARA SYSTEM—Continued

Municipality . . . . .	Etobicoke Twp.	Exeter	Fergus	Fonthill	Forest
Population . . . . .		1,622	2,585	833	1,425
<b>ASSETS</b>					
Lands and buildings . . . . .	\$ c. 25,641.84	\$ c. 3,281.59	\$ c.	\$ c.	\$ c. 6,447.40
Substation equipment . . . . .					
Distribution system—overhead . . . . .	262,927.74	26,643.02	32,890.23	10,533.78	20,175.34
Distribution system—underground . . . . .					
Line transformers . . . . .	62,582.00	10,380.65	15,075.95	4,868.64	9,453.76
Meters . . . . .	49,332.97	8,125.69	11,382.30	4,331.41	8,664.91
Street light equipment, regular . . . . .	11,573.61	942.49	2,145.24	1,019.85	2,369.94
Street light equipment, ornamental . . . . .	2,689.44				
Miscellaneous construction expense . . . . .	4,843.19	2,327.37	1,294.34	3,855.09	1,126.42
Steam or hydraulic plant . . . . .					
Old plant . . . . .			2,546.59		11,042.87
Other plants not distributed . . . . .					
Total plant . . . . .	419,590.79	51,700.81	65,334.65	24,608.77	59,280.64
Bank and cash balance . . . . .		1,751.82	1,332.06	238.30	3,250.03
Securities and investments . . . . .		6,000.00			7,500.00
Accounts receivable . . . . .	22,639.24	2,443.98	553.23	185.31	3,301.30
Inventories . . . . .	47.68	2,342.43	133.39		1,872.43
Sinking fund on local debentures . . . . .					
Equity in H-E.P.C. systems . . . . .	79,546.25	20,912.33	25,281.78	2,351.03	14,707.04
Other assets . . . . .	4,564.53	68.66	58.33		74.62
Total assets . . . . .	526,388.49	85,220.03	92,693.44	27,383.41	89,986.06
Deficit . . . . .					
Total . . . . .	526,388.49	85,220.23	92,693.44	27,383.41	89,986.06
<b>LIABILITIES</b>					
Debenture balance . . . . .	196,970.43	9,171.63	21,295.06	17,922.52	11,711.74
Accounts payable . . . . .	20,000.00		621.25	129.94	
Bank overdraft . . . . .	7,365.71			315.62	
Other liabilities . . . . .	7,253.97	94.25	10.00	230.62	26.06
Total liabilities . . . . .	231,590.11	9,265.88	21,926.31	18,598.70	11,737.80
<b>RESERVES</b>					
For equity in H-E.P.C. systems . . . . .	79,546.25	20,912.33	25,281.78	2,351.03	14,707.04
For depreciation . . . . .	53,880.97	8,926.71	6,677.33	1,271.44	11,558.74
Other reserves . . . . .	1,500.00	84.00			50.00
Total reserves . . . . .	134,927.22	29,923.04	31,959.11	3,622.47	26,315.78
<b>SURPLUS</b>					
Debentures paid . . . . .	68,724.97	10,828.42	20,704.94	4,577.48	22,688.26
Local sinking fund . . . . .					
Operating surplus . . . . .	91,146.19	35,202.69	18,103.08	584.76	29,244.22
Total surplus . . . . .	159,871.16	46,031.11	38,808.02	5,162.24	51,932.48
Total liabilities, reserves and surplus . . . . .	526,388.49	85,220.03	92,693.44	27,383.41	89,986.06
Percentage of net debt to total assets . . . . .	51.3	14.4	31.6	74.3	15.5

## "A"—Continued

## Hydro Municipalities as at December 31, 1932

Galt 13,960	George- town 1,997	Glencoe 767	Goderich 4,324	Granton P.V.	Guelph 21,201	Hagers- ville 1,285	Hamilton 150,065
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
200,400.85			12,957.48		13,380.18		929,551.60
113,622.52			34,402.48		139,713.17	864.37	1,737,799.64
228,049.07	30,126.88	20,704.96	64,572.46	4,170.55	184,953.21	19,807.41	1,247,269.44
							851,226.90
117,259.45	18,111.46	6,311.20	20,268.45	1,533.55	83,161.20	9,788.08	969,455.27
72,021.22	13,014.10	4,205.38	17,360.38	1,486.86	91,025.20	8,487.98	620,785.86
72,290.44	1,364.67	1,714.63	4,825.17	163.37	42,038.32	976.69	274,727.91
26,181.98	2,390.67	3,481.32	6,055.80	113.08	14,892.87	1,081.30	208,888.37
	2,209.80		14,622.15				104,506.64
829,825.53	67,217.58	36,417.49	175,064.37	7,467.41	569,164.15	41,005.83	6,944,211.63
175.00	573.73	2,741.65	50.00	2,829.61	29,083.40	7,893.17	209,599.12
	8,214.80			2,000.00		12,000.00	
67,492.07	1,224.84	1,314.02	3,571.91	112.48	15,969.76	1,811.64	421,607.51
13,751.01	141.51		1,126.58		27,463.52	19.50	155,281.02
103,656.86					41,228.68		602,313.76
284,752.36	49,924.77	9,481.57	63,694.65	4,319.34	333,433.78	43,449.04	1,870,477.61
2,041.95	368.61	49.02	1,493.33				3,233.88
1,301,694.78	127,665.84	50,003.75	245,000.84	16,728.84	1,016,343.29	106,179.18	10,206,724.53
1,301,694.78	127,665.84	50,003.75	245,000.84	16,728.84	1,016,343.29	106,179.18	10,206,724.53
324,664.99	11,459.43	9,541.28	52,324.74	2,251.11	57,052.97	3,540.46	3,412,282.73
13,491.11	308.34		511.15	688.06	22,411.33		294,569.90
35,721.10			217.48				
5,652.01	361.00	550.12	1,493.33		2,293.58		*1,992,784.37
379,529.21	12,128.77	10,091.40	54,546.70	2,939.17	81,757.88	3,540.46	5,699,637.00
284,752.36	49,924.77	9,481.57	63,694.65	4,319.34	333,433.78	43,449.04	1,870,477.61
218,655.03	17,872.80	6,105.31	52,326.45	1,880.61	43,471.97	6,571.27	805,293.58
32,903.23			1,055.77		837.88		195,827.51
536,310.62	67,797.57	15,586.88	117,076.87	6,199.95	377,743.63	50,020.31	2,871,598.70
193,336.96	8,540.57	10,571.60	43,763.31	1,248.89	87,947.02	4,459.54	806,742.39
103,656.86					41,228.68		602,313.76
88,861.13	39,198.93	13,753.87	29,613.96	6,340.83	427,666.08	48,158.87	226,432.68
385,854.95	47,739.50	24,325.47	73,377.27	7,589.72	556,841.78	52,618.41	1,635,488.83
1,301,694.78	127,665.84	50,003.75	245,000.84	16,728.84	1,016,343.29	106,179.18	10,206,724.53
29.6	15.2	24.9	30.0	23.6	6.3	5.6	65.9

\*Includes a balance of \$1,937,500.00 on purchase agreement.

**STATEMENT**

**Balance Sheets of Electrical Departments of**

**NIAGARA  
SYSTEM—Continued**

Municipality.....	Harriston	Harrow	Hensall	Hespeler	Highgate
Population.....	1,301	907	745	2,711	334
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....				4,474.73	
Substation equipment.....	600.00			29,732.13	
Distribution system—overhead...	21,881.88	16,162.92	12,370.10	30,359.75	6,383.76
Distribution system—underground					
Line transformers.....	7,416.42	9,615.23	4,428.42	20,425.49	2,109.25
Meters.....	7,039.91	5,618.81	3,412.30	12,331.79	1,697.12
Street light equipment, regular....	1,141.41	741.63	612.83	7,074.32	430.26
Street light equipment, ornamental					
Miscellaneous construction expense	993.16	95.42	563.61	721.18	519.15
Steam or hydraulic plant.....					
Old plant.....	1,001.43		400.00		
Other plants not distributed.....					
Total plant.....	40,074.21	32,234.01	21,787.26	105,119.39	11,139.54
Bank and cash balance.....	20.00	2,538.59	2,193.72		1,910.62
Securities and investments.....			4,000.00		2,321.96
Accounts receivable.....	198.14	2,455.94	575.68	6,288.43	78.85
Inventories.....				315.78	
Sinking fund on local debentures...					
Equity in H-E.P.C. systems.....	17,138.78	9,485.41	7,598.95	49,551.83	5,394.17
Other assets.....	56.89		39.11		13.14
Total assets.....	57,488.02	46,713.95	36,194.72	161,275.43	20,858.28
Deficit.....					
Total.....	57,480.28	46,713.95	36,194.72	161,275.43	20,858.28
<b>LIABILITIES</b>					
Debenture balance.....	10,957.42	8,771.43	7,553.59	37,633.16	3,216.40
Accounts payable.....	4,347.44	1,076.66	688.05	91.67	134.68
Bank overdraft.....	1,573.66			216.61	
Other liabilities.....		366.24	55.50		
Total liabilities.....	16,878.52	10,214.33	8,297.14	37,941.44	3,351.08
<b>RESERVES</b>					
For equity in H-E.P.C. systems...	17,138.78	9,485.41	7,598.95	49,551.83	5,394.17
For depreciation.....	4,723.17	769.86	5,207.73	10,232.62	3,000.64
Other reserves.....					
Total reserves.....	21,861.95	10,255.27	12,806.68	59,784.45	8,394.81
<b>SURPLUS</b>					
Debentures paid.....	14,860.61	3,228.57	4,446.41	39,937.35	1,783.60
Local sinking fund.....					
Operating surplus.....	3,886.94	23,015.78	10,644.49	23,612.19	7,328.79
Total surplus.....	18,747.55	26,244.35	15,090.90	63,549.54	9,112.39
Total liabilities, reserves and surplus	57,488.02	46,713.95	36,194.72	161,275.43	20,858.28
Percentage of net debt to total assets	41.8	27.4	29.0	34.0	21.6



## "A"—Continued

## Hydro Municipalities as at December 31, 1932

Humberstone 2,419	Ingersoll 5,000	Jarvis 482	Kingsville 2,245	Kitchener 31,114	Lambeth P.V.	La Salle 609	Leamington 4,912
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	15,064.45	.....	7,774.09	129,345.29	.....	.....	16,351.71
.....	26,521.47	.....	.....	215,728.98	.....	.....	7,085.62
26,024.23	54,835.26	9,403.31	31,144.02	308,231.67	6,893.10	18,950.34	48,685.83
.....	.....	.....	.....	37,706.12	.....	.....	9,585.77
9,181.25	27,189.89	3,047.96	13,143.80	170,371.25	1,883.12	6,716.60	22,600.97
7,621.55	24,936.34	2,332.75	13,031.84	176,914.79	2,184.61	4,174.22	22,064.70
884.80	3,980.93	846.99	1,399.61	63,688.73	269.16	946.49	1,380.13
.....	4,597.59	.....	19,200.00	86,939.84	.....	.....	15,178.49
2,898.72	11,673.29	703.12	117.97	15,014.82	300.71	1,810.69	1,738.96
.....	.....	.....	.....	.....	.....	.....	.....
.....	19,580.34	.....	.....	52,363.91	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
46,610.55	188,379.56	16,334.13	85,811.33	1,256,305.40	11,530.70	32,598.34	144,672.18
.....	.....	.....	.....	.....	.....	.....	.....
7,632.61	.....	1,124.67	7,136.72	1,968.42	2,870.47	6,308.29	5,781.86
.....	11,716.57	.....	8,000.00	15,000.00	.....	.....	11,000.00
603.98	875.37	585.39	1,966.82	45,281.39	594.64	1,174.02	4,660.78
.....	1,920.93	10.47	.....	11,785.31	.....	.....	.....
.....	63,219.73	.....	.....	.....	.....	.....	.....
8,380.37	94,747.96	6,899.05	18,769.21	634,997.65	4,709.82	5,938.03	32,975.35
.....	601.13	.....	.....	.....	.....	528.28	194.13
63,227.51	361,461.25	24,953.71	121,684.08	1,965,338.17	19,705.63	46,546.96	199,284.30
.....	.....	.....	.....	.....	.....	.....	.....
63,227.51	361,461.25	24,953.71	121,684.08	1,965,338.17	19,705.63	46,546.96	199,284.30
.....	.....	.....	.....	.....	.....	.....	.....
20,400.00	79,800.00	7,110.40	29,306.07	214,486.41	2,572.53	11,963.16	35,085.20
534.54	7,282.74	.....	2,960.51	40,749.24	.....	.....	.....
.....	895.90	.....	.....	.....	.....	.....	.....
840.29	5,198.72	.....	20,832.25	86,939.84	648.04	528.28	17,163.70
21,774.83	93,177.36	7,110.40	53,098.83	342,175.49	3,220.57	12,491.44	52,248.90
.....	.....	.....	.....	.....	.....	.....	.....
8,380.37	94,747.96	6,899.05	18,769.21	634,997.65	4,709.82	5,938.03	32,975.35
4,178.37	9,008.29	1,825.32	14,265.95	226,508.10	2,528.95	4,452.44	17,096.37
.....	940.28	.....	.....	22,945.19	.....	.....	.....
12,558.74	104,696.53	8,724.37	33,035.16	884,450.94	7,238.77	10,390.47	50,071.72
.....	.....	.....	.....	.....	.....	.....	.....
11,600.00	.....	3,389.60	4,193.93	297,663.59	1,427.47	3,536.84	12,914.80
.....	63,219.73	.....	.....	.....	.....	.....	.....
17,293.94	100,367.63	5,729.34	31,356.16	441,048.15	7,818.82	20,128.21	84,048.88
28,893.94	163,587.36	9,118.94	35,550.09	738,711.74	9,246.29	23,665.05	96,963.68
63,227.51	361,461.25	24,953.71	121,684.08	1,965,338.17	19,705.63	46,546.96	199,284.30
39.7	11.9	39.4	30.5	25.7	21.5	32.5	24.5

**STATEMENT**

**Balance Sheets of Electrical Departments of**

**NIAGARA  
SYSTEM—Continued**

Municipality.....	Listowel	London	London Twp.	Long Branch	Lucan
Population.....	2,688	71,310		3,537	547
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....	1,457.39	458,398.49			
Substation equipment.....		925,006.76			
Distribution system—overhead...	37,645.21	767,622.56	16,935.61	51,168.74	10,528.36
Distribution system—underground	2,897.25	265,096.50			
Line transformers.....	17,049.07	286,577.44	5,605.28	11,532.53	4,131.49
Meters.....	15,766.43	318,188.90	3,700.97	16,499.12	3,104.52
Street light equipment, regular....	1,709.82	66,801.12	861.36	4,219.02	410.87
Street light equipment, ornamental	1,348.66	84,746.73			
Miscellaneous construction expense	2,351.01	92,111.45	478.71	1,220.51	473.07
Steam or hydraulic plant.....					
Old plant.....	4,745.30		1,733.80		2,860.45
Other plants not distributed.....					
Total plant.....	84,970.14	3,264,549.95	29,315.73	84,639.92	21,508.76
Bank and cash balance.....	8,572.71	67,344.11	7,115.13		3,109.86
Securities and investments.....					5,000.00
Accounts receivable.....	1,394.94	232,487.92	1,593.53	513.57	200.97
Inventories.....		82,781.88			
Sinking fund on local debentures...		299,671.38			
Equity in H-E.P.C. systems.....	36,411.85	1,145,236.95	6,575.78	3,978.05	10,418.84
Other assets.....		1,175.35	84.85	2,130.68	
Total assets.....	131,349.64	5,093,247.54	44,685.02	91,262.22	40,238.43
Deficit.....					
Total.....	131,349.64	5,093,247.54	44,685.02	91,262.22	40,238.43
<b>LIABILITIES</b>					
Debenture balance.....	9,411.83	1,024,346.21	11,971.58	27,267.93	4,582.96
Accounts payable.....	12.16	183,064.17	2,632.41	10,054.50	
Bank overdraft.....					
Other liabilities.....	1,513.53	85,922.08	84.85	2,130.68	125.00
Total liabilities.....	10,937.52	1,293,332.46	14,688.84	39,453.11	4,707.96
<b>RESERVES</b>					
For equity in H-E.P.C. systems...	36,411.85	1,145,236.95	6,575.78	3,978.05	10,418.84
For depreciation.....	24,311.77	758,940.76	3,600.81	12,245.04	6,516.45
Other reserves.....		72,532.53		500.00	
Total reserves.....	60,723.62	1,976,710.24	10,176.59	16,723.09	16,935.29
<b>SURPLUS</b>					
Debentures paid.....	33,778.06	557,553.79	7,028.42	13,036.67	6,630.66
Local sinking fund.....		299,671.38			
Operating surplus.....	25,910.44	965,979.67	12,791.17	22,049.35	11,964.52
Total surplus.....	59,688.50	1,823,204.84	19,819.59	35,086.02	18,595.18
Total liabilities, reserves and surplus	131,349.64	5,093,247.54	44,685.02	91,262.22	40,238.43
Percentage of net debt to total assets	10.2	24.	38.5	43.8	15.7

“A”—Continued

Hydro Municipalities as at December 31, 1932

Lynden P.V.	Markham 1,001	Merlin P.V.	Merritton 2,515	Milton 1,825	Milverton 1,064	Mimico 6,422	Mitchell 1,609
\$ c. 241.18	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,753.81	14,925.65	8,042.18	34,149.62	20,616.68	11,337.91	72,091.52	28,998.95
2,134.21	7,441.40	3,391.23	6,737.28	13,988.73	7,565.80	29,920.12	8,807.77
1,564.56	5,590.07	2,235.70	9,471.75	12,752.36	5,047.01	27,277.14	11,823.76
340.66	732.20	555.64	4,637.66	1,282.36	737.16	7,586.19	2,593.23
193.57	1,517.81	455.36	3,277.88	4,405.38	818.43	5,387.95	1,019.52
		241.85		3,092.54			1,500.00
9,227.99	30,207.13	14,921.96	93,914.90	68,006.99	25,743.51	197,581.30	89,170.26
588.71	563.52	2,458.67	14,701.88	8,270.24	2,366.46	2,918.49	5,787.77
	2,299.17	6,000.00		8,000.00	2,000.00		2,500.00
593.53	1,303.42	1,020.35	154.66	8,590.55	453.51	6,226.55	7,139.20
				1,504.18			2,669.80
7,840.67	8,075.72	6,558.84	42,913.51	57,948.39	25,455.10	65,893.56	22,789.60
	43.16			113.85		1,917.62	63.50
18,250.90	42,492.12	30,959.82	151,684.95	152,434.20	56,018.58	274,537.52	130,120.13
18,250.90	42,492.12	30,959.82	151,684.95	152,434.20	56,018.58	274,537.52	130,120.13
2,820.07	1,613.21	8,419.82	21,567.61	8,311.39	2,143.42	88,607.69	
8.02	55.03	1,231.10	662.61		3,447.50	3,828.70	1,628.54
187.83	50.00			113.85		4,250.00	63.50
3,015.92	1,718.24	9,650.92	22,230.22	8,425.24	5,590.92	96,686.39	1,692.04
7,840.67	8,075.72	6,558.84	42,913.51	57,948.39	25,455.10	65,893.56	22,789.60
2,181.13	4,882.67	1,828.05	4,403.02	13,150.92	4,557.61	36,441.53	30,862.85
						825.68	
10,021.80	12,958.39	8,386.89	47,316.53	71,099.31	30,012.71	103,160.77	53,652.45
1,674.93	9,760.42	4,944.39	10,618.60	24,735.02	7,356.58	38,392.31	22,295.22
3,538.25	18,055.07	7,977.62	71,519.60	48,174.63	13,058.37	36,298.05	52,480.42
5,213.18	27,815.49	12,922.01	82,138.20	72,909.65	20,414.95	74,690.36	74,775.64
18,250.90	42,492.12	30,959.82	151,684.95	152,434.20	56,018.58	274,537.52	130,120.13
28.9	5.	39.5	20.4	8.8	18.2	46.3	1.5



# STATEMENT

## Balance Sheets of Electrical Departments of

### NIAGARA SYSTEM—Continued

Municipality.....	Moorefield	Mount Brydges	Newbury	New Hamburg	New Toronto
Population.....	P.V.	P.V.	312	1,462	6,437
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....				2,513.19	43,741.58
Substation equipment.....				1,167.55	
Distribution system—overhead...	2,980.96	6,315.91	6,422.17	23,538.15	76,509.11
Distribution system—underground					8,605.69
Line transformers.....	990.72	1,709.69	1,767.86	7,268.97	28,640.29
Meters.....	1,182.42	2,209.08	1,195.32	8,951.49	27,503.59
Street light equipment, regular...	295.88	629.66	817.42	2,065.70	10,090.44
Street light equipment, ornamental					
Miscellaneous construction expense	348.35	152.82	498.01	1,149.36	8,426.13
Steam or hydraulic plant.....					
Old plant.....			348.22	5,242.56	
Other plants not distributed.....					
Total plant.....	5,798.33	11,017.16	11,049.00	51,896.97	203,516.83
Bank and cash balance.....	1,937.45	2,035.61	1,355.90	25.00	5,800.92
Securities and investments.....		3,000.00			
Accounts receivable.....	40.65	1,465.95	44.27	1,715.27	10,269.21
Inventories.....				1,117.64	
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	3,195.47	3,501.49	2,160.36	26,269.83	210,186.51
Other assets.....	7.81	65.00	11.88		4,635.52
Total assets.....	10,979.71	21,085.21	14,621.41	81,024.71	434,408.99
Deficit.....					
Total.....	10,979.71	21,085.21	14,621.41	81,024.71	434,408.99
LIABILITIES					
Debenture balance.....	1,630.38	2,502.49	4,900.00	7,568.00	4,322.74
Accounts payable.....	4.00	429.59	149.22		12,782.18
Bank overdraft.....				2,300.64	
Other liabilities.....		65.00		141.50	4,635.52
Total liabilities.....	1,634.38	2,997.08	5,049.22	10,010.14	21,740.44
RESERVES					
For equity in H-E.P.C. systems...	3,195.47	3,501.49	2,160.36	26,269.83	210,186.51
For depreciation.....	1,899.11	1,804.45	2,064.93	10,405.74	39,928.79
Other reserves.....				192.35	923.32
Total reserves.....	5,094.58	5,305.94	4,225.29	36,867.92	251,038.62
SURPLUS					
Debentures paid.....	2,869.62	1,717.51	4,854.39	10,161.08	3,677.26
Local sinking fund.....					
Operating surplus.....	1,381.13	11,064.68	492.51	23,985.57	157,952.67
Total surplus.....	4,250.75	12,782.19	5,346.90	34,146.65	161,629.93
Total liabilities, reserves and surplus	10,979.71	21,085.21	14,621.41	81,024.71	434,408.99
Percentage of net debt to total assets	21.0	16.8	40.5	18.3	9.7

## “A”—Continued

## Hydro Municipalities as at December 31, 1932

Niagara Falls 18,678	Niagara on-the-Lake 1,657	North York Twp. .	Norwich 1,071	Oil Springs 448	Otterville P.V.	Palmerston 1,750	Paris 4,263
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
132,198.34	2,307.35	28,248.83	4,157.99	1,292.23			8,426.83
228,650.76	16,048.36					691.88	27,914.17
189,842.61	27,045.87	322,666.22	11,056.80	12,731.09	5,718.53	26,268.07	51,323.79
156,385.56	6,524.78	75,721.36	6,133.60	5,782.35	3,204.93	9,844.50	19,498.59
107,398.37	7,676.92	39,933.91	6,772.65	3,321.76	2,227.30	8,998.82	18,906.66
24,395.69	1,230.44	258.71	4,685.64	306.62	1,338.28	2,140.70	13,630.93
92,845.41		13,491.21					
17,430.74	1,973.52	21,532.11	1,608.60	2,733.64	142.00	894.44	897.38
21,722.55			3,509.82			4,018.71	
970,870.03	62,807.24	501,852.35	37,925.10	26,167.69	12,631.04	52,857.12	140,598.35
20,369.30	515.52	15,332.61	1,635.03		5,729.60	289.28	4,345.62
6,113.83			3,000.00	2,589.04			13,500.00
12,763.68	2,133.93	5,056.56	1,569.50	763.99	871.98	128.12	3,268.93
15,836.04	2,035.14		1,285.37			109.78	
290,121.85	14,392.79	39,473.44	19,548.29	13,428.18	4,083.16	21,508.88	59,170.72
15,535.46				38.28			
1,331,610.19	81,884.62	561,714.96	64,963.29	42,987.18	23,315.78	74,893.18	220,883.62
1,331,610.19	81,884.62	561,714.96	64,963.29	42,987.18	23,315.78	74,893.18	220,883.62
375,918.65	22,308.47	387,775.98	6,590.32	6,073.48	1,048.74	5,021.63	10,157.67
30,619.69	1,739.29	961.51	216.74	128.22	562.01	2,606.78	
14,597.43	35.00	18,220.24	92.50	133.19		217.50	
421,135.77	24,082.86	406,957.73	6,899.56	6,334.89	1,610.75	7,845.91	10,157.67
290,121.85	14,392.79	39,473.44	19,548.29	13,428.18	4,083.16	21,508.88	59,170.72
118,356.28	7,390.32	45,702.58	4,137.29	5,543.61	3,540.07	6,703.60	54,048.83
9,104.63			1,000.00			491.67	175.00
417,582.76	21,783.11	85,176.02	24,685.58	18,971.79	7,623.23	28,704.15	113,394.55
314,324.35	14,192.95	55,245.89	7,165.68	10,647.83	3,451.26	21,978.37	81,842.33
178,567.31	21,825.80	14,335.32	26,212.47	7,032.67	10,630.54	16,364.75	15,489.07
492,891.66	36,018.75	69,581.21	33,378.15	17,680.50	14,081.80	38,343.12	97,331.40
1,331,610.19	81,884.62	561,714.96	64,963.29	42,987.18	23,315.78	74,893.18	220,883.62
40.4	35.7	77.9	15.1	21.4	8.4	14.7	6.2

**STATEMENT**

**Balance Sheets of Electrical Departments of**

**NIAGARA  
SYSTEM—Continued**

Municipality.....	Parkhill	Petrolia	Plattsville	Point Edward	Port Colborne
Population.....	968	2,431	P.V.	1,114	6,494
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....		900.00			22,561.01
Substation equipment.....		2,403.55			
Distribution system—overhead...	15,954.23	42,808.40	3,764.40	20,113.76	87,614.43
Distribution system—underground					
Line transformers.....	4,369.63	25,682.89	1,252.37	6,444.29	23,864.11
Meters.....	4,217.94	15,075.04	1,921.31	4,955.70	21,755.49
Street light equipment, regular...	898.23	4,849.35	147.15	2,985.52	4,544.86
Street light equipment, ornamental					16,611.59
Miscellaneous construction expense	1,380.59	5,866.61	535.92	503.14	7,852.77
Steam or hydraulic plant.....					
Old plant.....		3,389.94			9,929.60
Other plants not distributed.....					
Total plant.....	26,820.62	100,975.78	7,621.15	35,002.41	194,733.86
Bank and cash balance.....	990.38	2,960.10	218.27	1,794.57	15.00
Securities and investments.....		8,400.00		13,000.00	1,500.00
Accounts receivable.....	778.20	3,436.55	866.13	4,409.40	6,851.12
Inventories.....		926.88			3,528.02
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	8,982.90	52,566.01	4,623.71	22,811.04	43,497.80
Other assets.....		565.00			
Total assets.....	37,572.10	169,830.32	13,329.26	77,017.42	250,125.80
Deficit.....					
Total.....	37,572.10	169,830.32	13,329.26	77,017.42	250,125.80
<b>LIABILITIES</b>					
Debenture balance.....	7,036.46	26,487.07	3,019.60	8,940.91	100,196.10
Accounts payable.....		2,945.95		3,849.07	1,627.71
Bank overdraft.....					282.58
Other liabilities.....	70.00	565.00			19,962.30
Total liabilities.....	7,106.46	29,998.02	3,019.60	12,789.98	122,068.69
<b>RESERVES</b>					
For equity in H-E.P.C. systems...	8,982.90	52,566.01	4,623.71	22,811.04	43,497.80
For depreciation.....	4,555.32	24,462.11	2,551.33	8,540.62	26,671.38
Other reserves.....		141.55			960.40
Total reserves.....	13,538.22	77,169.67	7,175.04	31,351.66	71,129.58
<b>SURPLUS</b>					
Debentures paid.....	7,593.56	23,512.93	2,217.40	8,059.09	45,803.90
Local sinking fund.....					
Operating surplus.....	9,333.86	39,149.70	917.22	24,816.69	11,123.63
Total surplus.....	16,927.42	62,662.63	3,134.62	32,875.78	56,927.53
Total liabilities, reserves and surplus	37,572.10	169,830.32	13,329.26	77,017.42	250,125.80
Percentage of net debt to total assets	24.8	25.1	34.6	23.5	55.4



## "A"—Continued

## Hydro Municipalities as at December 31, 1932

Port Credit 1,600	Port Dalhousie 1,394	Port Dover 1,584	Port Rowan 676	Port Stanley 694	Preston 6,173	Princeton P.V.	Queenston P.V.
\$ c. 675.00	\$ c.	\$ c. 248.75	\$ c.	\$ c. 1,570.80	\$ c.	\$ c.	\$ c.
23,959.50	18,398.80	29,534.00	9,650.37	20,212.54	50,602.15 89,351.36	4,228.15	7,594.07
8,938.13	9,284.89	10,241.71	1,676.62	10,737.28	47,796.23	2,473.48	1,911.85
9,085.01	9,256.02	6,891.71	1,815.68	8,735.54	38,856.01	1,223.65	1,536.99
4,922.71	1,041.19	2,537.31	888.04	1,546.63	5,425.03	185.35	422.43
897.49	2,523.98	2,445.57	681.63	5,862.39	6,794.91	64.35	2,081.11
	6,018.38			577.51	32,126.75		
48,477.84	46,523.26	51,899.05	14,712.24	49,242.69	270,952.44	8,174.98	13,546.45
4,089.54	1,212.75	1,825.99	1,679.02	1,167.91	11,251.71	1,200.50	
	3,000.00			3,000.00	6,000.00		
1,494.21	3,379.78	1,782.19	119.31	1,847.88	14,342.58	1,505.11	185.54
	2,467.12				74.60		
17,251.94	14,732.08	11,079.28	2,906.24	19,896.18	142,339.91	3,897.53	3,341.19
869.95	65.50			34.11	129.00		15.65
72,183.48	71,380.49	66,586.51	19,416.81 6,275.30	75,188.77	445,090.24	14,778.12	17,088.83
72,183.48	71,380.49	66,586.51	25,692.11	75,188.77	445,090.24	14,778.12	17,088.83
8,985.62	10,939.95	12,597.20	9,314.35	8,227.51	56,837.10	2,046.85	6,100.86
252.98	754.96	2,430.87	10,339.82		5,919.13	180.07	100.00
360.00		652.00		20.01	1,438.95		38.60
9,598.60	11,694.91	15,680.07	19,654.17	8,247.52	64,195.18	2,226.92	6,239.46
17,251.94	14,732.08	11,079.28	2,906.24	19,896.18	142,339.91	3,897.53	3,341.19
12,766.12	4,557.48	6,638.72	1,446.05	8,956.97	86,115.82	2,043.98	2,222.45
91.72							
30,109.78	19,289.56	17,718.00	4,352.29	28,853.15	228,455.73	5,941.51	5,563.64
5,514.38	11,560.05	16,402.80	1,685.65	10,722.49	95,962.90	1,503.15	3,399.14
26,960.72	2,467.12 26,368.85	16,785.64		27,365.61	56,476.43	5,106.54	1,886.59
32,475.10	40,396.02	33,188.44	1,685.65	38,088.10	152,439.33	6,609.69	5,285.73
72,183.48	71,380.49	66,586.51	25,692.11	75,188.77	445,090.24	14,778.12	17,088.83
17.5	17.0	28.2	119.0	14.9	20.7	20.4	45.4

## STATEMENT

## Balance Sheets of Electrical Departments of

**NIAGARA  
SYSTEM—Continued**

Municipality . . . . .	Richmond Hill 1,235	Ridgetown	Riverside	Rockwood	Rodney
Population . . . . .		1,990	5,125	P.V.	738
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings . . . . .			2,379.31	79.00	
Substation equipment . . . . .	600.00	1,024.24			
Distribution system—overhead . . . . .	10,391.89	21,390.54	90,798.32	7,565.39	11,187.44
Distribution system—underground					
Line transformers . . . . .	7,212.07	9,852.66	31,124.03	2,481.27	2,971.48
Meters . . . . .	4,579.74	9,458.86	22,800.27	2,802.39	3,554.47
Street light equipment, regular . . . . .	1,333.57	3,533.41		561.22	639.99
Street light equipment, ornamental		1,431.73	17,030.71		
Miscellaneous construction expense	35.23	2,606.91	4,571.45	436.35	788.86
Steam or hydraulic plant . . . . .					
Old plant . . . . .		5,088.46			700.00
Other plants not distributed . . . . .					
Total plant . . . . .	24,152.50	54,386.81	168,704.09	13,925.62	19,842.24
Bank and cash balance . . . . .	1,970.75	50.00			1,247.98
Securities and investments . . . . .		13,000.00			3,000.00
Accounts receivable . . . . .	2,303.19	606.47	13,967.61	548.83	330.27
Inventories . . . . .	166.60	901.62		133.50	
Sinking fund on local debentures . . . . .					
Equity in H-E.P.C. systems . . . . .	6,992.50	20,709.01	37,317.94	5,752.36	6,130.67
Other assets . . . . .	57.88			21.17	36.85
Total assets . . . . .	35,643.42	89,653.91	219,989.64	20,381.48	30,588.01
Deficit . . . . .					
Total . . . . .	35,643.42	89,653.91	219,989.64	20,381.48	30,588.01
<b>LIABILITIES</b>					
Debenture balance . . . . .	4,787.57	6,753.40	57,649.35	2,424.39	5,608.62
Accounts payable . . . . .	76.38	423.35	3,926.84	223.25	690.48
Bank overdraft . . . . .		55.14	3,414.71	99.08	
Other liabilities . . . . .	55.12	1,756.73	17,030.71	20.00	92.00
Total liabilities . . . . .	4,919.07	8,988.62	82,021.61	2,766.72	6,391.10
<b>RESERVES</b>					
For equity in H-E.P.C. systems . . . . .	6,992.50	20,709.01	37,317.94	5,752.36	6,130.67
For depreciation . . . . .	1,061.05	9,841.30	23,180.54	3,982.12	1,440.26
Other reserves . . . . .			594.99		
Total reserves . . . . .	8,053.55	30,550.31	61,093.47	9,734.48	7,570.93
<b>SURPLUS</b>					
Debentures paid . . . . .	7,412.43	12,702.59	24,850.65	2,075.61	2,891.38
Local sinking fund . . . . .					
Operating surplus . . . . .	15,258.37	37,412.39	52,023.91	5,804.67	13,734.60
Total surplus . . . . .	22,670.80	50,114.98	76,874.56	7,880.28	16,625.98
Total liabilities, reserves and surplus	35,643.42	89,653.91	219,989.64	20,381.48	30,588.01
Percentage of net debt to total assets	17.2	11.2	39.2	18.8	26.1

## "A"—Continued

## Hydro Municipalities as at December 31, 1932

St. Catharines 25,645	St. Clair Beach 114	St. George P.V.	St. Jacobs P.V.	St. Marys 4,032	St. Thomas 16,582	Sandwich 11,408
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
47,378.92				3,000.00	73,253.59	541.70
115,063.83				26,973.78	110,201.39	4,097.56
205,572.56	7,785.49	5,932.09	6,425.31	54,413.75	111,149.73	107,773.81
					36,690.67	
137,385.62	2,492.83	2,729.42	2,539.38	19,779.11	53,685.43	47,288.49
85,330.62	1,467.70	2,757.07	2,554.06	21,475.09	67,498.09	50,394.20
18,372.91		232.07	390.26	4,136.50	21,259.32	11,665.76
27,448.87					3,693.04	51,239.13
39,322.57	149.27	374.18	460.55	3,670.58	10,993.19	8,378.51
7,792.05				20,696.85		4,148.96
683,667.95	11,895.29	12,024.83	12,369.56	154,145.66	488,424.45	285,528.12
4,799.44	524.37	984.83	247.12	3,372.21	400.00	11,744.90
12,069.06		500.00	3,000.00		52,072.73	15,138.88
29,240.61	1,086.27	192.36	369.75	6,528.15	29,938.13	14,381.21
478.76				3,173.61	7,806.06	344.38
63,165.88				1,318.20		
259,563.60	3,163.72	6,845.74	7,153.62	69,654.68	237,830.74	111,044.97
8,033.70				67.50		596.34
1,061,019.00	16,669.65	20,547.76	23,140.05	238,260.01	816,472.11	438,778.80
1,061,019.00	16,669.65	20,547.76	23,140.05	238,260.01	816,472.11	438,778.80
220,607.22	3,997.46	3,560.05	2,143.64	42,961.61	32,796.34	104,306.72
68,340.11	193.48	512.76	103.56			
					3,626.34	
27,739.87		72.50		67.50	11,197.51	62,427.69
316,687.20	4,190.94	4,145.31	2,247.20	43,029.11	47,620.19	166,734.41
259,563.60	3,163.72	6,845.74	7,153.62	69,654.68	237,830.74	111,044.97
122,454.91	1,981.68	1,628.50	2,729.52	45,726.02	86,665.49	32,151.60
17,971.88	33.95			659.05	553.37	
399,990.39	5,179.35	8,474.24	9,883.14	116,039.75	325,049.60	143,196.57
81,415.69	2,343.99	2,439.95	3,856.36	71,285.41	106,147.73	41,266.31
63,165.88				1,318.20		
199,759.84	4,955.37	5,488.26	7,153.35	6,587.54	337,654.59	87,581.51
344,341.41	7,299.36	7,928.21	11,009.71	79,191.15	443,802.32	128,847.82
1,061,019.00	16,669.65	20,547.76	23,140.05	238,260.01	816,472.11	438,778.80
31.8	31.0	30.2	14.1	25.7	7.6	41.8



# STATEMENT

## Balance Sheets of Electrical Departments of

### NIAGARA SYSTEM—Continued

Municipality . . . . .	Sarnia	Scarboro' Twp.	Seaforth	Simcoe	Spring- field 387
Population . . . . .	17,540		1,688	5,263	
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings . . . . .	111,304.25	16,585.49	1,290.34	8,442.41	
Substation equipment . . . . .	206,506.33	301.95	5,999.16	22,906.67	
Distribution system—overhead . . .	210,961.09	267,207.74	27,957.71	49,417.64	7,861.45
Distribution system—underground					
Line transformers . . . . .	75,962.85	59,166.96	9,581.40	24,184.88	2,374.19
Meters . . . . .	71,114.19	63,842.44	8,587.32	23,236.74	1,964.13
Street light equipment, regular . . .	25,219.12	19,765.71	1,414.55	5,550.13	546.24
Street light equipment, ornamental	7,482.11			3,500.00	
Miscellaneous construction expense	25,900.91	13,168.36	395.45	6,560.28	691.36
Steam or hydraulic plant . . . . .					
Old plant . . . . .	55,495.72			927.92	
Other plants not distributed . . . . .					
Total plant . . . . .	789,946.57	440,038.65	55,225.93	144,726.67	13,437.37
Bank and cash balance . . . . .		24,130.49	683.68	3,966.03	870.96
Securities and investments . . . . .			12,100.00		5,500.00
Accounts receivable . . . . .	54,575.66	12,611.23	5,058.82	4,282.86	29.03
Inventories . . . . .	20,873.49		2,911.26	139.58	
Sinking fund on local debentures . .			14,250.18		
Equity in H-E.P.C. systems . . . . .	290,686.22	72,344.99	34,414.01	42,800.62	4,749.92
Other assets . . . . .	3,256.75			266.48	
Total assets . . . . .	1,159,338.69	549,125.36	124,643.88	196,182.24	24,587.28
Deficit . . . . .					
Total . . . . .	1,159,338.69	549,125.36	124,643.88	196,182.24	24,587.28
LIABILITIES					
Debenture balance . . . . .	149,889.45	206,800.27	25,000.00	57,886.77	3,779.59
Accounts payable . . . . .	24,786.13	21,631.10			481.16
Bank overdraft . . . . .	17,783.56				
Other liabilities . . . . .	13,128.42	24,254.35	25.00	3,628.00	52.00
Total liabilities . . . . .	205,587.56	252,685.72	25,025.00	61,514.77	4,312.75
RESERVES					
For equity in H-E.P.C. systems . . .	290,686.22	72,344.99	34,414.01	42,800.62	4,749.92
For depreciation . . . . .	109,506.97	55,549.13	16,824.10	16,695.79	2,052.58
Other reserves . . . . .	1,179.39	4,537.49	1,106.96		
Total reserves . . . . .	401,372.58	132,431.61	52,345.07	59,496.41	6,802.50
SURPLUS					
Debentures paid . . . . .	188,110.55	83,768.00		17,548.13	5,720.41
Local sinking fund . . . . .			14,250.18		
Operating surplus . . . . .	364,268.00	80,240.03	33,023.63	57,622.93	7,751.62
Total surplus . . . . .	552,378.55	164,008.03	47,273.81	75,171.06	13,472.03
Total liabilities, reserves and surplus	1,159,338.69	549,125.36	124,643.88	196,182.24	24,587.28
Percentage of net debt to total assets	22.4	53.0	14.1	38.4	21.7

## "A"—Continued

## Hydro Municipalities as at December 31, 1932

Stamford Twp.	Stouffville 1,117	Stratford 18,626	Strathroy 2,870	Sutton 805	Tavistock 995	Tecumseh 2,550	Thames- ford P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,196.71		135,191.94	7,149.98		234.02		
37,384.60		136,903.19	21,776.34				
123,547.02	12,510.41	153,065.26	48,594.87	19,430.71	13,273.34	34,441.25	7,640.10
43,259.02	3,903.57	93,773.32	18,790.72	6,631.75	6,230.58	10,039.18	2,625.63
30,318.78	3,879.57	85,843.72	14,240.28	5,461.49	4,693.16	10,544.85	2,465.36
9,155.30	1,445.52	21,744.56	5,731.38	1,517.43	931.82		332.25
						4,760.95	
11,608.58	525.16	18,077.36	2,283.45	1,595.44	599.27	1,262.48	273.17
13,743.66	3,866.37	16,150.00	12,343.15	675.00			
276,213.67	26,130.60	660,749.35	130,910.17	35,311.82	25,962.19	61,048.71	13,336.51
370.00	2,548.01	600.00	6,528.14	2,411.21	1,132.76		762.10
	5,000.00	21,900.00			3,799.01		7,500.00
16,501.95	1,202.70	56,160.48	6,165.11	2,036.29	215.95	4,191.37	456.71
7,241.87		10,000.06	2,748.76				
		193,012.03					
42,365.49	6,715.70	307,773.52	42,752.87	6,040.27	21,646.60	11,721.69	8,670.56
4,179.96	43.01		393.09				24.35
346,872.94	41,640.02	1,250,195.44	189,498.14	45,799.59	52,756.51	76,961.77	30,750.23
346,872.94	41,640.02	1,250,195.44	189,498.14	45,799.59	52,756.51	76,961.77	30,750.23
181,589.85	8,141.29	412,000.00	36,070.86	17,638.16	3,863.55	16,106.84	1,868.68
1,057.66				3,232.50	563.60	966.28	
1,455.84		9,922.27				8,533.12	
3,696.60		1,648.31	393.09	71.60		4,760.95	24.35
187,799.95	8,141.29	423,570.58	36,463.95	20,942.26	4,427.15	30,367.19	1,893.03
42,365.49	6,715.70	307,773.52	42,752.87	6,040.27	21,646.60	11,721.69	8,670.56
18,921.58	1,685.29	190,362.56	19,822.44	4,055.22	6,759.71	8,894.26	4,161.78
1,465.65		2,042.84	425.00			316.30	
62,752.72	8,400.99	500,178.92	63,000.31	10,095.49	28,406.31	20,932.25	12,832.34
58,688.32	10,398.98	43,800.00	30,161.14	8,361.84	2,136.45	9,893.16	3,489.35
		193,012.03					
37,631.95	14,698.76	89,633.91	59,872.74	6,400.00	17,786.60	15,769.17	12,535.51
96,320.27	25,097.74	326,445.94	90,033.88	14,761.84	19,923.05	25,662.33	16,024.86
346,872.94	41,640.02	1,250,195.44	189,498.14	45,799.59	52,756.51	76,961.77	30,750.23
61.6	23.3	30.8	24.6	52.7	14.2	42.3	8.4

## STATEMENT

## Balance Sheets of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality . . . . .	Thames- ville 786	Thedford 515	Thorndale P.V.	Thorold 5,068	Tilbury 1,929
Population . . . . .					
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings . . . . .	681.69			9,892.59	969.46
Substation equipment . . . . .					
Distribution system—overhead . . . . .	11,734.70	9,218.89	3,240.45	30,630.64	14,682.92
Distribution system—underground . . . . .					
Line transformers . . . . .	5,160.49	3,303.91	1,559.98	14,432.74	12,417.77
Meters . . . . .	3,862.01	2,170.67	1,731.49	20,175.55	7,359.49
Street light equipment, regular . . . . .	1,379.42	885.46	181.19	2,762.69	1,001.16
Street light equipment, ornamental . . . . .					
Miscellaneous construction expense . . . . .	1,020.21	1,623.61	310.45	5,225.25	1,474.82
Steam or hydraulic plant . . . . .				13,175.95	
Old plant . . . . .	4,445.68	433.78			3,049.47
Other plants not distributed . . . . .					
Total plant . . . . .	28,284.20	17,636.32	7,023.56	96,295.41	40,955.09
Bank and cash balance . . . . .	3,225.32	913.42	912.01	9,272.01	1,898.61
Securities and investments . . . . .	5,000.00	1,000.00			10,000.00
Accounts receivable . . . . .	126.33	1,243.49	710.26	3,803.08	2,053.80
Inventories . . . . .				42.29	
Sinking fund on local debentures . . . . .					
Equity in H-E.P.C. systems . . . . .	8,597.77	4,202.55	4,719.84	39,415.26	22,403.90
Other assets . . . . .	31.33			269.00	64.54
Total assets . . . . .	45,264.95	24,995.78	13,365.67	149,097.05	77,375.94
Deficit . . . . .					
Total . . . . .	45,264.95	24,995.78	13,365.67	149,097.05	77,375.94
<b>LIABILITIES</b>					
Debenture balance . . . . .	4,729.43	9,784.53	1,520.19		7,299.22
Accounts payable . . . . .	188.03	2,169.99	457.11	5,638.40	
Bank overdraft . . . . .					
Other liabilities . . . . .	101.00	10.00		1,493.50	
Total liabilities . . . . .	5,018.46	11,964.52	1,977.30	7,131.90	7,299.22
<b>RESERVES</b>					
For equity in H-E.P.C. systems . . . . .	8,597.77	4,202.55	4,719.84	39,415.26	22,403.90
For depreciation . . . . .	5,424.95	1,706.53	2,406.99	21,765.62	9,372.26
Other reserves . . . . .					
Total reserves . . . . .	14,022.72	5,909.08	7,126.83	61,180.88	31,776.16
<b>SURPLUS</b>					
Debentures paid . . . . .	6,458.37	6,715.47	1,566.29	5,000.00	6,700.78
Local sinking fund . . . . .					
Operating surplus . . . . .	19,765.40	406.71	2,695.25	75,784.27	31,599.78
Total surplus . . . . .	26,223.77	7,122.18	4,261.54	80,784.27	38,300.56
Total liabilities, reserves and surplus . . . . .	45,264.95	24,995.78	13,365.67	149,097.05	77,375.94
Percentage of net debt to total assets . . . . .	13.6	57.5	22.9	6.5	13.2



## "A"—Continued

## Hydro Municipalities as at December 31, 1932

Tillson- burg 3,287	Toronto 621,596	Toronto Twp. 	Trafalgar Twp. Area No. 1	Trafalgar Twp. Area No. 2	Walkerville 11,351	Wallaceburg 4,501
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,918.30	4,777,334.52	6,366.13			147,518.53	37,746.29
13,937.52	15,039,319.66				155,069.52	9,651.80
40,493.73	6,030,804.84	170,761.56	20,151.33	8,682.52	152,176.54	57,026.33
	3,959,553.25					
15,047.10	3,480,031.67	46,380.08	9,232.06	1,972.52	91,072.88	34,773.82
15,994.64	2,928,031.78	30,066.38	4,741.17	1,181.74	69,168.81	19,355.58
11,415.89	477,742.79	3,717.44				10,661.01
					187,172.22	
3,088.65	2,671,800.92	3,188.25	1,593.70	318.66	38,314.33	4,465.64
	3,559,088.87	619.65			18,335.05	20,941.07
106,895.83	42,923,708.30	261,099.49	35,718.26	12,155.44	858,827.88	194,621.54
50.00	1,713,488.50	10,491.91	3,958.02	1,424.34	37,431.91	1,387.97
9,000.00		10,000.00		1,000.00	7,661.99	
3,774.95	1,421,498.61	9,202.52	383.97	401.25	125,493.16	5,849.77
2,471.81	525,838.97				27,529.28	3,009.02
	5,797,940.49					
43,328.89	9,145,449.91	42,166.16			320,310.18	92,757.37
2,294.55	39,433.54	1,665.87			1,606.00	1,500.37
167,816.03	61,567,358.32	334,625.95	40,060.25	14,981.03	1,378,860.41	299,126.04
167,816.03	61,567,358.32	334,625.95	40,060.25	14,981.03	1,378,860.41	299,126.04
11,171.10	27,689,250.00	66,054.19	13,543.52	9,461.15	153,042.74	47,293.71
27.26	1,716,440.00	4,541.86			84,853.65	194.83
1,968.56						
1,960.00		1,665.87			205,104.72	1,500.37
15,126.92	29,405,690.00	72,261.92	13,543.52	9,461.15	443,001.11	48,988.91
43,328.89	9,145,449.91	42,166.16			320,310.18	92,757.37
28,663.70	6,827,418.78	78,474.60	10,934.67	900.00	110,581.30	35,054.27
495.20	987,742.28	862.42			6,763.14	44.74
72,487.79	16,960,610.97	121,503.18	10,934.67	900.00	437,654.62	127,856.38
24,828.90	6,893,750.00	37,945.81	5,882.89		146,216.26	24,242.87
	5,797,940.49					
55,372.42	2,509,366.86	102,915.04	9,699.17	4,619.88	351,988.42	98,037.88
80,201.32	15,201,057.35	140,860.85	15,582.06	4,619.88	498,204.68	122,280.75
167,816.03	61,567,358.32	334,625.95	40,060.25	14,981.03	1,378,860.41	299,126.04
12.1	50.6	24.2	33.8	63.2	29.3	23.1

STATEMENT

Balance Sheets of Electrical Departments of

**NIAGARA  
SYSTEM—Continued**

Municipality . . . . .	Wardsville	Water- down 887	Waterford	Waterloo	Watford
Population . . . . .	182		1,096	8,550	915
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings . . . . .		200.00		14,454.37	
Substation equipment . . . . .				63,511.42	
Distribution system—overhead . . . . .	5,003.72	15,952.66	15,772.78	89,016.23	15,870.38
Distribution system—underground . . . . .					
Line transformers . . . . .	1,695.49	5,364.65	7,144.55	40,262.98	5,286.79
Meters . . . . .	1,253.12	5,589.87	5,894.24	34,817.28	5,229.07
Street light equipment, regular . . . . .	519.36	583.81	3,231.62	14,076.14	807.31
Street light equipment, ornamental . . . . .				3,106.80	
Miscellaneous construction expense . . . . .	488.73	470.04	442.53	7,203.75	2,136.89
Steam or hydraulic plant . . . . .					
Old plant . . . . .	193.94			24,160.67	657.44
Other plants not distributed . . . . .					
Total plant . . . . .	9,154.36	28,161.03	32,485.72	290,609.64	29,987.88
Bank and cash balance . . . . .		294.21	1,026.17		2,680.89
Securities and investments . . . . .	1,000.00		5,300.00		4,000.00
Accounts receivable . . . . .	312.33	2,487.86	688.44	6,208.65	1,228.36
Inventories . . . . .				800.41	25.79
Sinking fund on local debentures . . . . .				10,545.94	
Equity in H-E.P.C. systems . . . . .	1,637.38	12,178.89	15,561.36	128,459.61	10,416.65
Other assets . . . . .					
Total assets . . . . .	12,104.07	43,121.99	55,061.69	436,624.25	48,339.57
Deficit . . . . .					
Total . . . . .	12,104.07	43,121.99	55,061.69	436,624.25	48,339.57
<b>LIABILITIES</b>					
Debenture balance . . . . .	4,306.24			57,077.03	2,257.61
Accounts payable . . . . .	323.54	974.26	1,746.63		996.22
Bank overdraft . . . . .	347.76			4,352.14	
Other liabilities . . . . .		70.00		3,106.80	
Total liabilities . . . . .	4,977.54	1,044.26	1,746.63	64,535.97	3,253.83
<b>RESERVES</b>					
For equity in H-E.P.C. systems . . . . .	1,637.38	12,178.89	15,561.36	128,459.61	10,416.65
For depreciation . . . . .	1,677.84	5,994.04	8,100.52	86,894.72	4,991.84
Other reserves . . . . .				200.00	
Total reserves . . . . .	3,315.22	18,172.93	23,661.88	215,554.33	15,408.49
<b>SURPLUS</b>					
Debentures paid . . . . .	3,256.16	8,000.00	7,745.53	48,922.97	7,455.60
Local sinking fund . . . . .				10,545.94	
Operating surplus . . . . .	555.15	15,904.80	21,907.65	97,065.04	22,221.65
Total surplus . . . . .	3,811.31	23,904.80	29,653.18	156,533.95	29,677.25
Total liabilities, reserves and surplus . . . . .	12,104.07	43,121.99	55,061.69	436,624.25	48,339.57
Percentage of net debt to total assets . . . . .	47.5	3.3	4.4	20.9	8.5

## "A"—Continued

## Hydro Municipalities as at December 31, 1932

Welland 10,338	Wellesley P.V.	West Lorne 812	Weston 4,618	Wheatley 765	Windsor 68,079	Wood- bridge 786	Wood- stock 10,840
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
73,059.45			11,770.81		312,212.24		35,489.71
56,576.25			32,737.85		678,204.73		93,838.15
130,578.94	5,633.60	11,296.93	59,806.62	14,524.19	754,235.40	16,552.32	99,966.25
7,464.61					141,658.25		
56,783.26	2,153.50	4,138.99	35,332.30	4,443.64	349,099.71	5,768.98	54,503.36
55,495.16	2,398.90	3,091.23	21,969.23	3,897.39	329,122.40	4,273.32	53,016.99
4,236.59	545.11	636.97	30,052.76	1,591.76	37,377.41	423.26	15,068.12
27,252.86					693,788.56		
11,310.87	102.05	347.14	6,713.73	832.51	127,237.65	838.20	3,198.77
51,070.78		1,250.00		2,569.50	141,990.11		
473,828.77	10,833.16	20,761.26	198,383.30	27,858.99	3,564,926.46	27,856.08	355,081.35
7,450.89	1,308.60	3,076.27	4,797.19	1,384.34	275.00	714.81	35,671.82
29,772.00				1,500.00	117,269.80		61,000.00
10,958.49	29.39	312.50	6,285.98	793.56	147,639.32	177.24	8,370.45
17,864.87		93.07	197.93		86,966.55		645.08
99,876.98					115,296.06		47,938.76
143,466.51	9,055.32	15,679.40	113,783.85	5,501.81	951,295.58	14,439.00	188,447.32
4,438.28				34.40	7,330.67		5,180.98
787,656.79	21,226.47	39,922.50	323,448.25	37,073.10	4,990,999.44	43,187.13	702,335.76
787,656.79	21,226.47	39,922.50	323,448.25	37,073.10	4,990,999.44	43,187.13	702,335.76
263,118.67	2,265.78	5,402.34	41,427.56	8,803.31	1,415,144.16	5,332.02	77,339.26
38,570.44	229.63	561.17		149.04	58,342.96	3,927.14	
33,632.31			2,088.30		30,400.96		
					747,735.39	186.84	5,180.98
335,321.42	2,495.41	5,963.51	43,515.86	8,952.35	2,251,623.47	9,446.00	82,520.24
143,466.51	9,055.32	15,679.40	113,783.85	5,501.81	951,295.58	14,439.00	188,447.32
104,910.30	2,184.06	5,190.14	27,106.70	2,378.32	346,931.38	6,469.79	117,266.14
1,845.00					131,766.25		13,060.93
250,221.81	11,239.38	20,869.54	140,890.55	7,880.13	1,429,993.21	20,908.79	318,774.39
35,881.33	5,234.22	2,597.66	28,604.88	4,196.69	574,855.87	3,167.95	50,046.37
99,876.98					115,296.06		47,938.76
66,355.25	2,257.46	10,491.79	110,436.96	16,043.93	619,230.83	9,664.39	203,056.00
202,113.56	7,491.68	13,089.45	139,041.84	20,240.62	1,309,382.76	12,832.34	301,041.13
787,656.79	21,226.47	39,922.50	323,448.25	37,073.10	4,990,999.44	43,187.13	702,335.76
59.5	20.5	24.6	20.8	28.3	44.6	32.9	6.3



# STATEMENT

## Balance Sheets of Electrical Departments of

### NIAGARA SYSTEM—Concluded

Municipality.....	Wyoming	York Twp.	Zurich	NIAGARA SYSTEM SUMMARY
Population.....	475		P.V.	
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....				8,156,363.65
Substation equipment.....				20,863,137.97
Distribution system—overhead....	7,301.92	764,501.12	6,932.37	16,726,583.46
Distribution system—underground				5,406,481.98
Line transformers.....	1,257.61		1,643.52	8,098,091.12
Meters.....	2,295.58		2,270.21	6,853,468.45
Street light equipment, regular....	283.92	49,913.60	471.82	1,635,153.98
Streetlight equipment, ornamental.				1,539,290.34
Miscellaneous construction expense	805.20	19,070.96	240.77	3,748,300.89
Steam or hydraulic plant.....				13,175.95
Old plant.....			150.00	4,378,852.20
Other plants not distributed.....				200,000.00
Total plant.....	11,944.23	833,485.68	11,708.69	77,618,899.99
Bank and cash balance.....	201.82	96,574.15	306.26	2,676,940.73
Securities and investments.....			2,000.00	699,559.69
Accounts receivable.....	54.20		581.85	3,147,971.29
Inventories.....				1,082,944.30
Sinking fund on local debentures..				7,680,092.01
Equity in H-E.P.C. systems.....	3,989.73		6,865.12	20,663,398.10
Other assets.....		13,077.68	21.30	156,912.22
Total assets.....	16,189.98	943,137.51	21,483.22	113,726,718.33
Deficit.....	2,303.27			13,730.48
Total.....	18,493.25	943,137.51	21,483.22	113,740,448.81
LIABILITIES				
Debenture balance.....	2,389.55	432,378.39	3,917.47	40,522,301.69
Accounts payable.....	735.88	885.10		2,866,548.71
Bank overdraft.....				152,636.59
Other liabilities.....			15.00	3,682,168.71
Total liabilities.....	3,125.43	433,263.49	3,932.47	47,223,655.70
RESERVES				
For equity in H-E.P.C. systems....	3,989.73		6,865.12	20,663,398.10
For depreciation.....	4,067.64	125,808.53	3,701.29	12,419,822.83
Other reserves.....				1,532,276.37
Total reserves.....	8,057.37	125,808.53	10,566.41	34,615,497.30
SURPLUS				
Debentures paid.....	7,310.45	167,621.61	1,674.14	12,865,100.14
Local sinking fund.....				7,680,092.01
Operating surplus.....		216,443.88	5,310.20	11,356,103.66
Total surplus.....	7,310.45	384,065.49	6,984.34	31,901,295.81
Total liabilities, reserves and surplus	18,493.25	943,137.51	21,483.22	113,740,448.81
Percentage of net debt to total assets	25.6	45.9	26.9	46.3

## "A"—Continued

## Hydro Municipalities as at December 31, 1932

GEORGIAN BAY  
SYSTEM

Alliston 1,367	Arthur 993	Barrie 7,411	Beaverton 931	Beeton 552	Bradford 964	Brechin P.V.	Canning- ton 856
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
675.73		14,199.11	299.50				
26,668.52	17,142.31	15,189.30		428.50	388.50		
		66,437.67	20,266.65	11,688.77	19,060.00	1,789.59	9,832.02
7,037.73	3,925.03	42,184.26	6,555.24	2,188.63	4,072.65	1,126.71	4,156.88
7,003.83	3,347.12	39,509.69	5,642.44	1,821.78	3,803.39	688.19	4,214.51
1,469.44	767.21	12,063.80	1,085.23	1,169.54	544.95	212.44	770.00
2,593.09	363.89	7,896.10	2,355.31	1,433.38	1,828.94	546.92	632.33
7,846.49	1,086.62	42,634.32	3,772.42				3,609.37
53,294.83	26,632.18	295,832.69	39,976.79	18,730.60	29,698.43	4,363.85	23,215.11
1,270.58	312.90	50.00	2,183.18	632.46	506.43	460.70	805.15
			9,000.00		1,000.00		1,326.62
1,948.70	179.38	13,293.63	1,307.35	864.64	2,567.23	913.54	679.04
31.28		499.55		11.81	101.68		200.97
9,858.77	9,596.06	63,832.24	11,158.49	7,764.36	8,568.79	4,365.24	8,245.23
		971.68	45.96		53.30		
66,404.16	36,720.52	374,479.79	63,671.77	28,003.87	42,495.86	10,103.33	34,472.12
	10,294.33			1,394.00			
66,404.16	47,014.85	374,479.79	63,671.77	29,397.87	42,495.86	10,103.33	34,472.12
27,372.16	18,363.40	29,489.54	7,203.46	10,575.18	19,018.37	2,251.55	8,576.02
1,255.15	2,359.26	26,555.75	71.31	844.95	608.17	380.94	46.11
		13,855.42					
		15.00	400.50		184.16	21.85	
28,627.31	20,722.66	69,915.71	7,675.27	11,420.13	19,810.70	2,654.34	8,622.13
9,858.77	9,596.06	63,832.24	11,158.49	7,764.36	8,568.79	4,365.24	8,245.23
11,861.34	10,059.53	53,460.69	10,560.90	5,788.56	6,685.59	1,526.18	6,730.75
		900.00					
21,720.11	19,655.59	118,192.93	21,719.39	13,552.92	15,254.38	5,891.42	14,975.98
12,627.84	6,636.60	78,510.46	7,796.54	4,424.82	6,181.63	959.37	6,423.98
3,428.90		107,860.69	26,480.57		1,249.15	598.20	4,450.03
16,056.74	6,636.60	186,371.15	34,277.11	4,424.82	7,430.78	1,557.57	10,874.01
66,404.16	47,014.85	374,479.79	63,671.77	29,397.87	42,495.86	10,103.33	34,472.12
50.6	76.4	22.5	14.6	56.4	58.4	46.3	32.8

## STATEMENT

## Balance Sheets of Electrical Departments of

**GEORGIAN BAY  
SYSTEM—Continued**

Municipality . . . . .	Chatsworth 263	Chesley	Coldwater 641	Collingwood 5,730	Cookstown P.V.
Population . . . . .		1,804	641	5,730	P.V.
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings . . . . .	221.00		275.00	15,950.08	60.00
Substation equipment . . . . .		595.98		11,203.24	392.95
Distribution system—overhead . . . . .	4,452.10	19,871.35	7,478.22	47,682.09	9,065.60
Distribution system—underground . . . . .					
Line transformers . . . . .	1,014.91	6,781.32	2,779.67	17,011.28	2,100.62
Meters . . . . .	1,280.23	6,580.53	2,912.06	22,144.71	2,055.84
Street light equipment, regular . . . . .	529.17	1,173.68	440.68	2,876.90	694.21
Street light equipment, ornamental . . . . .					
Miscellaneous construction expense . . . . .	385.90	3,301.82	145.03	6,452.48	1,520.03
Steam or hydraulic plant . . . . .					
Old plant . . . . .		5,503.60			
Other plants not distributed . . . . .					
Total plant . . . . .	7,883.31	43,808.28	14,030.66	123,320.78	15,889.25
Bank and cash balance . . . . .	3,064.78	15.00	1,387.98	100.00	1,734.00
Securities and investments . . . . .		10,000.00	4,000.00	27,000.00	
Accounts receivable . . . . .	118.72	2,649.10	1,810.30	2,209.21	680.97
Inventories . . . . .		286.36		619.95	
Sinking fund on local debentures . . . . .	2,942.95				
Equity in H-E.P.C. systems . . . . .	2,008.79	16,598.17	6,413.08	73,708.51	2,352.76
Other assets . . . . .		91.53			
Total assets . . . . .	16,018.55	73,448.44	27,642.02	226,958.45	20,656.98
Deficit . . . . .					575.96
Total . . . . .	16,018.55	73,448.44	27,642.02	226,958.45	21,232.94
<b>LIABILITIES</b>					
Debenture balance . . . . .	4,681.28	6,965.15	3,897.57		6,839.23
Accounts payable . . . . .	95.78	287.62	876.51		
Bank overdraft . . . . .		1,419.01		6,465.59	
Other liabilities . . . . .			51.00	1,806.84	
Total liabilities . . . . .	4,777.06	8,671.78	4,825.08	8,272.43	6,839.23
<b>RESERVES</b>					
For equity in H-E.P.C. systems . . . . .	2,008.79	16,598.17	6,413.08	73,708.51	2,352.76
For depreciation . . . . .	2,653.06	12,604.48	6,434.01	37,263.44	5,380.18
Other reserves . . . . .					
Total reserves . . . . .	4,661.85	29,202.65	12,847.09	110,971.95	7,732.94
<b>SURPLUS</b>					
Debentures paid . . . . .	718.72	20,534.85	3,102.43	42,604.59	6,660.77
Local sinking fund . . . . .	2,942.95				
Operating surplus . . . . .	2,917.97	15,039.16	6,867.42	65,109.48	
Total surplus . . . . .	6,579.64	35,574.01	9,969.85	107,714.07	6,660.77
Total liabilities, reserves and surplus . . . . .	16,018.55	73,448.44	27,642.02	226,958.45	21,232.94
Percentage of net debt to total assets . . . . .	16.6	15.3	22.7	5.4	37.3



## "A"—Continued

## Hydro Municipalities as at December 31, 1932

Creemore 606	Dundalk 655	Durham 1,779	Elmvale P.V.	Elmwood P.V.	Flesherton 462	Grand Valley 570	Graven- hurst 1,896
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
		56.59	106.25			36.50	3,521.42
		546.02					6,372.35
7,301.01	7,608.11	21,743.46	10,439.35	4,812.76	5,446.88	11,341.14	26,011.70
3,171.36	3,233.53	6,833.51	3,881.66	803.88	1,802.52	2,179.63	7,139.17
2,901.36	2,494.99	6,521.44	3,254.07	982.76	2,146.28	2,647.80	8,944.87
295.27	1,082.10	1,381.46	447.17	302.28	633.62	503.83	3,904.71
279.27	439.38	1,765.09	510.13	1,093.62	926.82	205.70	2,183.15
3,433.74	380.94	2,091.39				919.85	26,976.29
17,382.01	15,239.05	40,938.96	18,638.63	7,995.30	10,956.12	17,834.45	85,053.66
415.33	739.80	1,317.63	1,181.52	1,079.27	1,945.57	1,250.00	880.72
	3,000.00	11,000.00	2,000.00			2,694.48	
831.28	75.68	947.32	561.49	705.69	945.80	828.49	4,441.68
	32.59	95.81			20.64		655.03
5,979.53	5,643.69	15,948.30	8,130.66	362.88			7,314.01
				1,772.52	3,215.25	5,858.71	10,059.93
				16.10	19.51		
24,608.15	24,730.81	70,248.02	30,512.30	11,931.76	17,102.89	28,466.13	108,405.03
24,608.15	24,730.81	70,248.02	30,512.30	11,931.76	17,102.89	28,466.13	108,405.03
1,039.15	1,130.41	4,540.10	3,516.15	3,043.54	3,981.86	3,323.13	13,348.50
2,226.52	702.92	3,750.90	455.36	18.05	325.18	1,356.09	2,310.46
3,265.67	1,833.33	8,291.00	3,971.51	3,061.59	4,307.04	4,679.22	15,658.96
5,979.53	5,643.69	15,948.30	8,130.66	1,772.52	3,215.25	5,858.71	10,059.93
2,822.04	3,490.94	9,048.55	6,046.79	2,502.38	3,367.53	4,723.18	15,514.18
							500.00
8,801.57	9,134.63	24,996.85	14,177.45	4,274.90	6,582.78	10,581.89	26,074.11
5,460.85	5,206.49	21,259.90	3,483.85	4,156.46	2,718.14	7,676.87	50,619.94
				362.88			7,314.01
7,080.06	8,556.36	15,700.27	8,879.49	75.93	3,494.93	5,528.15	8,738.01
12,540.91	13,762.85	36,960.17	12,363.34	4,595.27	6,213.07	13,205.02	66,671.96
24,608.15	24,730.81	70,248.02	30,512.30	11,931.76	17,102.89	28,466.13	108,405.03
17.5	9.6	15.3	17.7	27.5	31.0	20.7	17.2

# STATEMENT

## Balance Sheets of Electrical Departments of

### GEORGIAN BAY SYSTEM—Continued

Municipality . . . . .	Hanover	Holstein	Huntsville	Kincardine	Kirkfield
Population . . . . .	3,102	P.V.	2,946	2,487	P.V.
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings . . . . .	3,001.32		353.52	6,389.46	
Substation equipment . . . . .	9,271.19		647.30	2,794.20	
Distribution system—overhead . . . . .	48,804.72	2,102.68	13,599.63	41,812.30	5,113.67
Distribution system—underground					
Line transformers . . . . .	16,896.78	555.22	6,420.12	10,747.62	557.90
Meters . . . . .	15,266.87	514.82	8,388.11	10,165.44	630.49
Street light equipment, regular . . . . .	2,326.30	168.69	2,262.52	5,200.12	379.00
Street light equipment, ornamental					
Miscellaneous construction expense	5,362.52	205.93	625.20	5,492.30	301.53
Steam or hydraulic plant . . . . .					
Old plant . . . . .	2,370.91		5,436.20		
Other plants not distributed . . . . .					
Total plant . . . . .	103,300.61	3,547.34	37,732.60	82,601.44	6,982.59
Bank and cash balance . . . . .	1,704.59	187.70	4,145.67	50.00	854.12
Securities and investments . . . . .	26,979.07		10,000.00		
Accounts receivable . . . . .	712.21	81.19	3,321.10	2,842.69	91.83
Inventories . . . . .	140.61	54.81	1,417.05	1,426.07	
Sinking fund on local debentures . . . . .					
Equity in H-E.P.C. systems . . . . .	41,326.56	1,861.02	26,959.82	15,686.70	1,559.23
Other assets . . . . .			139.95	325.51	
Total assets . . . . .	174,163.65	5,732.06	83,716.19	102,932.41	9,487.77
Deficit . . . . .		4,716.26			1,241.22
Total . . . . .	174,163.65	10,448.32	83,716.19	102,932.41	10,728.99
<b>LIABILITIES</b>					
Debenture balance . . . . .	39,270.43	439.33	3,080.07	34,270.83	3,248.53
Accounts payable . . . . .	2,200.54	4,775.07	278.32	4,170.23	1,371.69
Bank overdraft . . . . .				591.07	
Other liabilities . . . . .			465.00		
Total liabilities . . . . .	41,470.97	5,214.40	3,823.39	39,032.13	4,620.22
<b>RESERVES</b>					
For equity in H-E.P.C. systems . . . . .	41,326.56	1,861.02	26,959.82	15,686.70	1,559.23
For depreciation . . . . .	33,795.33	1,050.18	11,298.59	13,634.80	1,798.07
Other reserves . . . . .					
Total reserves . . . . .	75,121.89	2,911.20	38,258.41	29,321.50	3,357.30
<b>SURPLUS</b>					
Debentures paid . . . . .	48,229.57	2,322.72	18,053.47	29,929.17	2,751.47
Local sinking fund . . . . .					
Operating surplus . . . . .	9,341.22		23,580.92	4,649.61	
Total surplus . . . . .	57,570.79	2,322.72	41,634.39	34,578.78	2,751.47
Total liabilities, reserves and surplus	174,163.65	10,448.32	83,716.19	102,932.41	10,728.99
Percentage of net debt to total assets	31.2	134.7	6.7	44.7	58.3

“A”—Continued

Hydro Municipalities as at December 31, 1932

Lucknow 1,067	Markdale 819	Meaford 2,726	Midland 7,802	Mount Forest 1,914	Neustadt 448	Orange- ville 2,764	Owen Sound 12,673
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
.....	.....	1,104.93	19,036.05	3,725.00	.....	2,585.07	25,978.31
.....	780.80	2,398.85	85,096.20	686.75	.....	1,169.00	12,919.97
16,914.41	10,514.30	29,638.30	93,317.60	22,558.14	9,970.79	31,377.91	105,508.69
.....	.....	.....	.....	.....	.....	.....	.....
4,005.04	4,151.74	7,214.59	22,014.66	6,594.59	3,543.69	6,906.74	46,486.72
4,583.58	3,244.99	6,946.23	35,725.47	7,148.97	2,017.85	10,979.07	55,575.55
1,391.17	1,314.08	3,215.81	18,712.15	2,302.55	496.41	1,396.02	27,532.69
.....	.....	.....	.....	.....	.....	6,064.59	.....
2,286.02	690.93	2,083.58	6,016.32	2,160.00	1,521.48	6,278.37	4,422.51
.....	.....	.....	.....	.....	.....	.....	33,282.00
.....	2,080.65	3,486.68	.....	3,810.95	1,097.60	3,204.99	.....
.....	.....	.....	.....	.....	.....	.....	.....
29,180.22	22,777.49	56,088.97	279,918.45	48,986.95	18,647.82	69,961.76	311,706.44
.....	.....	.....	.....	.....	.....	.....	.....
2,790.60	784.52	1,635.87	5,244.95	.....	11.92	988.03	384.15
2,000.00	.....	16,300.54	29,000.00	8,000.00	.....	2,500.00	3,893.33
1,181.43	651.07	1,614.15	19,933.78	203.64	115.23	1,274.45	6,600.08
.....	90.08	.....	4,349.02	36.00	27.20	287.40	11,701.70
.....	.....	.....	.....	.....	.....	.....	14,000.00
7,910.85	4,372.15	10,755.29	112,966.08	14,496.96	4,972.87	18,393.70	88,384.18
60.85	.....	.....	1,857.38	.....	.....	153.14	.....
.....	.....	.....	.....	.....	.....	.....	.....
43,123.95	28,675.31	86,394.82	453,269.66	71,723.55	23,775.04	93,558.48	436,669.88
.....	.....	.....	.....	.....	14,863.89	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
43,123.95	28,675.31	86,394.82	453,269.66	71,723.55	38,638.93	93,558.48	436,669.88
.....	.....	.....	.....	.....	.....	.....	.....
11,764.64	5,788.87	35,832.33	35,152.54	12,357.55	7,728.67	10,299.85	14,000.00
22.62	71.52	.....	43,749.40	2,925.96	10,682.37	1,000.00	.....
.....	.....	.....	.....	783.07	.....	.....	.....
.....	20.00	680.19	662.56	.....	.....	.....	2,432.94
.....	.....	.....	.....	.....	.....	.....	.....
11,787.26	5,880.39	36,512.52	79,564.50	16,066.58	18,411.04	11,299.85	16,432.94
.....	.....	.....	.....	.....	.....	.....	.....
7,910.85	4,372.15	10,755.29	112,966.08	14,496.96	4,972.87	18,393.70	88,384.18
4,692.65	4,395.90	8,086.68	102,454.05	13,028.12	5,983.69	18,043.98	52,482.13
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
12,603.50	8,768.05	18,841.97	215,420.13	27,525.08	10,956.56	36,437.68	140,866.31
.....	.....	.....	.....	.....	.....	.....	.....
7,958.72	3,211.13	13,527.87	76,917.45	18,601.05	9,271.33	25,600.15	127,000.00
.....	.....	.....	.....	.....	.....	.....	14,000.00
10,774.47	10,815.74	17,512.46	81,367.58	9,530.84	.....	20,220.80	138,370.63
.....	.....	.....	.....	.....	.....	.....	.....
18,733.19	14,026.87	31,040.33	158,285.03	28,131.89	9,271.33	45,820.95	279,370.63
.....	.....	.....	.....	.....	.....	.....	.....
43,123.95	28,675.31	86,394.82	453,269.66	71,723.55	38,638.93	93,558.48	436,669.88
.....	.....	.....	.....	.....	.....	.....	.....
33.5	24.2	48.3	23.4	28.1	97.9	15.0	0.7



# STATEMENT

## Balance Sheets of Electrical Departments of

### GEORGIAN BAY SYSTEM—Continued

Municipality . . . . .	Paisley	Penetang- uishene	Port Elgin	Port McNicol	Port Perry
Population . . . . .	693	4,046	1,300	875	1,130
<b>ASSETS</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
Lands and buildings . . . . .	c.	c.	c.	c.	c.
Substation equipment . . . . .	1,933.26	2,151.00	86.25	202.60	2,564.65
Distribution system—overhead . . . . .	11,462.94	7,076.39	25,180.81	7,403.68	18,899.72
Distribution system—underground					
Line transformers . . . . .	1,602.53	41,208.17	5,062.84	1,322.48	4,391.61
Meters . . . . .	2,899.07	15,499.02	5,848.74	2,497.83	3,836.86
Street light equipment, regular . . . . .	1,045.51	13,526.73	2,027.10	232.99	1,037.90
Street light equipment, ornamental					
Miscellaneous construction expense	742.60	3,510.13	823.62	643.43	359.42
Steam or hydraulic plant . . . . .		1,700.00			
Old plant . . . . .	1,745.00		4,352.00		
Other plants not distributed . . . . .					
Total plant . . . . .	21,430.91	84,671.44	43,381.36	12,303.01	31,090.16
Bank and cash balance . . . . .	1,665.20		4,641.80	429.17	1,125.22
Securities and investments . . . . .	2,500.00	1,281.60	4,000.00		11,946.66
Accounts receivable . . . . .	197.87	2,556.55	348.65	63.94	119.40
Inventories . . . . .		581.34			
Sinking fund on local debentures . . . . .					
Equity in H-E.P.C. systems . . . . .	4,505.71	32,818.37	1,160.41	2,929.42	6,682.44
Other assets . . . . .			48.73		
Total assets . . . . .	30,299.69	121,909.30	53,580.95	15,725.54	50,963.88
Deficit . . . . .					
Total . . . . .	30,299.69	121,909.30	53,580.95	15,725.54	50,963.88
<b>LIABILITIES</b>					
Debenture balance . . . . .	10,834.87	17,242.76	40,729.80	2,554.68	15,708.80
Accounts payable . . . . .	1,141.50	3,801.66	3,983.02	929.59	1,219.46
Bank overdraft . . . . .		2,069.72			
Other liabilities . . . . .			20.00		170.00
Total liabilities . . . . .	11,976.37	23,114.14	44,732.82	3,484.27	17,098.26
<b>RESERVES</b>					
For equity in H-E.P.C. systems . . . . .	4,505.71	32,818.37	1,160.41	2,929.42	6,682.44
For depreciation . . . . .	3,195.65	28,784.44	1,358.18	3,919.45	5,050.41
Other reserves . . . . .					
Total reserves . . . . .	7,701.36	61,602.81	2,518.59	6,848.87	11,732.85
<b>SURPLUS</b>					
Debentures paid . . . . .	5,165.13	23,757.24	1,270.20	4,745.32	4,172.86
Local sinking fund . . . . .					
Operating surplus . . . . .	5,456.83	13,435.11	5,059.34	647.08	17,959.91
Total surplus . . . . .	10,621.96	37,192.35	6,329.54	5,392.40	22,132.77
Total liabilities, reserves and surplus . . . . .	30,299.69	121,909.30	53,580.95	15,725.54	50,963.88
Percentage of net debt to total assets . . . . .	46.4	25.9	85.3	27.2	38.6

“A”—Continued

Hydro Municipalities as at December 31, 1932

Priceville P.V.	Ripley 450	Rosseau 291	Shelburne 1,129	Southamp- ton 1,660	Stayner 951	Sunderland P.V.	Tara 454
\$ c. 68.00	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
4,661.78	9,975.19	7,036.26	14,703.90	17,290.97	11,576.32	4,158.87	10,941.22
702.86	3,540.24	2,065.73	5,643.20	5,389.89	5,036.75	1,365.63	1,895.40
380.00	1,434.83	948.71	6,278.50	6,902.86	5,084.38	1,998.01	1,683.81
139.88	844.33	390.03	1,059.60	1,958.73	966.80	554.63	430.59
833.90	1,164.99	495.59	2,283.26	761.17	321.33	178.02	1,269.05
			739.50	2,604.00	4,132.41	2,030.00	
6,786.42	16,959.58	10,936.32	32,074.56	34,907.62	27,317.99	10,285.16	16,220.07
790.45	502.78		1,025.73	7,260.37	189.96		1,699.53
33.14	291.86	301.59	5,000.00		6,000.00	1,000.00	
	26.04		627.40	1,023.26	657.96	753.66	61.56
			55.12				
715.36	3,380.80	453.18	8,941.63	1,258.10	7,710.78	5,670.65	4,195.42
	26.36			50.96			22.27
8,325.37	21,187.42	11,691.09	47,724.44	44,500.31	41,876.69	17,709.47	22,198.85
6,391.02							2,946.71
14,716.39	21,187.42	11,691.09	47,724.44	44,500.31	41,876.69	17,709.47	25,145.56
3,248.52	10,771.15		5,628.58	30,955.00	2,251.16	3,325.37	6,440.44
5,517.13	15.00	10,722.17	906.23	10.70	934.87	274.24	31.50
		311.27				532.69	
	40.00						
8,765.65	10,826.15	11,033.44	6,534.81	30,965.70	3,186.03	4,132.30	6,471.94
715.36	3,380.80	453.18	8,941.63	1,258.10	7,710.78	5,670.65	4,195.42
1,483.90	2,759.81	204.47	9,336.58	1,146.00	8,340.62	2,898.56	5,418.64
2,199.26	6,140.61	657.65	18,278.21	2,404.10	16,051.40	8,569.21	9,614.06
3,751.48	3,200.79		14,291.42	2,045.00	11,748.84	3,474.63	9,059.56
	1,019.87		8,620.00	9,085.51	10,890.42	1,533.33	
3,751.48	4,220.66		22,911.42	11,130.51	22,639.26	5,007.96	9,059.56
14,716.39	21,187.42	11,691.09	47,724.44	44,500.31	41,876.69	17,709.47	25,145.56
115.2	60.8	98.2	16.9	71.6	9.3	34.3	35.9

# STATEMENT

## Balance Sheets of Electrical Departments of

### GEORGIAN BAY SYSTEM—Continued

Municipality.....	Teeswater	Thornton	Tottenham	Uxbridge	Victoria Harbor
Population.....	832	P.V.	575	1,591	1,160
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....				40.00	
Substation equipment.....	330.31		358.50	2,657.65	
Distribution system—overhead.....	17,032.99	6,403.82	8,055.08	13,142.53	8,613.56
Distribution system—underground					
Line transformers.....	4,746.02	860.41	1,117.48	3,680.12	1,278.18
Meters.....	3,315.65	796.76	2,109.02	4,475.05	2,252.25
Street light equipment, regular.....	1,406.90	381.95	460.17	1,214.74	337.47
Street light equipment, ornamental					
Miscellaneous construction expense	1,915.19	300.35	1,265.68	922.40	667.12
Steam or hydraulic plant.....					
Old plant.....	4,976.86		286.45		
Other plants not distributed.....					
Total plant.....	33,723.92	8,743.29	13,652.38	26,132.49	13,148.58
Bank and cash balance.....	145.93	66.03	1,164.17		340.97
Securities and investments.....	3,000.00			8,000.00	
Accounts receivable.....	370.42	301.97	264.43	737.72	320.01
Inventories.....			60.00	24.00	20.00
Sinking fund on local debentures.....					
Equity in H-E.P.C. systems.....	5,690.59	1,594.64	4,927.77	7,070.45	3,247.21
Other assets.....	36.28			70.77	17.87
Total assets.....	42,967.14	10,705.93	20,068.75	42,035.43	17,094.64
Deficit.....		4,611.27	3,073.45		
Total.....	42,967.14	15,317.20	23,142.20	42,035.43	17,094.64
LIABILITIES					
Debenture balance.....	13,289.85	3,814.33	8,013.40	12,833.72	1,467.47
Accounts payable.....	4,019.83	2,760.31	959.11	50.77	158.10
Bank overdraft.....				8.81	
Other liabilities.....			97.00		
Total liabilities.....	17,309.68	6,574.64	9,069.51	12,893.30	1,625.57
RESERVES					
For equity in H-E.P.C. systems.....	5,690.59	1,594.64	4,927.77	7,070.45	3,247.21
For depreciation.....	3,862.11	3,462.25	4,191.22	3,916.69	3,499.51
Other reserves.....					
Total reserves.....	9,552.70	5,056.89	9,118.99	10,987.14	6,746.72
SURPLUS					
Debentures paid.....	14,710.15	3,685.67	4,953.70	3,373.87	5,032.53
Local sinking fund.....					
Operating surplus.....	1,394.61			14,781.12	3,689.82
Total surplus.....	16,104.76	3,685.67	4,953.70	18,154.99	8,722.35
Total liabilities, reserves and surplus.....	42,967.14	15,317.20	23,142.20	42,035.43	17,094.64
Percentage of net debt to total assets.....	46.4	72.2	59.9	36.9	11.7



## "A"—Continued

## Hydro Municipalities as at December 31, 1932

Walkerton 2,310	Waubau- shene P.V.	Warton 1,881	Windermere 124	Wingham 2,201	Woodville 417	GEORGIAN BAY SYSTEM SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
				8,423.66		108,670.62
				4,699.84		171,944.03
37,774.70	5,527.88	21,247.36	9,020.05	40,391.70	2,970.40	1,131,333.11
						66,437.67
10,375.64	1,347.08	5,014.83	2,852.40	15,284.10	2,105.49	368,255.53
10,107.85	1,551.50	5,615.34	813.36	13,740.26	2,030.59	392,213.29
2,276.74	221.79	1,950.58	247.26	3,371.64	217.55	125,330.21
						6,064.59
2,094.91	345.66	1,616.39		5,029.03	275.21	100,313.39
				14,711.99		47,993.99
5,238.00		3,981.00		12,320.02	2,182.50	164,330.75
67,867.84	8,993.91	39,425.50	12,933.07	117,972.24	9,781.74	2,682,887.18
4,918.07	2,067.86	3,234.17	345.40	30.00	168.80	71,926.73
				9,000.00	6,500.00	227,922.30
785.60	249.72	1,031.04	876.80	2,685.95	369.99	92,212.58
541.53	12.24			4,037.19		27,443.07
						24,619.84
2,420.21	1,837.30	1,754.92	520.04	16,204.62	5,725.22	762,139.73
	10.39	80.83		72.12		4,171.49
76,533.25	13,171.42	45,526.46	14,675.31	150,002.12	22,545.75	3,893,322.92
						50,108.11
76,533.25	13,171.42	45,526.46	14,675.31	150,002.12	22,545.75	3,943,431.03
61,094.72	815.61			39,054.46	3,100.61	685,564.69
	63.20	35,177.64	12,670.89	32.84	438.02	201,592.53
				692.01		26,728.66
10.00		5.00	862.50	365.00		8,309.54
61,104.72	878.81	35,182.64	13,533.39	40,144.31	3,538.63	922,195.42
2,420.21	1,837.30	1,754.92	520.04	16,204.62	5,725.22	762,139.73
2,196.00	2,018.29	1,313.94	621.88	19,647.34	1,862.57	609,756.98
						1,400.00
4,616.21	3,855.59	3,068.86	1,141.92	35,851.96	7,587.79	1,373,296.71
1,905.28	2,684.39			57,051.04	2,399.39	863,617.69
						24,619.84
8,907.04	5,752.63	7,274.96		16,954.81	9,019.94	759,701.37
10,812.32	8,437.02	7,274.96		74,005.85	11,419.33	1,647,938.90
76,533.25	13,171.42	45,526.46	14,675.31	150,002.12	22,545.75	3,943,431.03
82.4	7.8	80.4	95.6	30.0	21.0	28.9

**STATEMENT**

**Balance Sheets of Electrical Departments of**

**EASTERN ONTARIO  
SYSTEM**

Municipality.....	Alexandria	Apple Hill	Athens	Bath	Belleville
Population.....	2,400	P.V.	666	343	13,914
<b>ASSETS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Lands and buildings.....	202.00	169.06			36,115.70
Substation equipment.....					2,338.65
Distribution system—overhead...	27,896.94	2,864.70	13,951.89	5,710.74	103,612.60
Distribution system—underground					
Line transformers.....	8,036.69	1,288.37	1,757.05	1,011.93	22,655.24
Meters.....	7,283.68	971.95	2,479.53	619.26	53,997.98
Street light equipment, regular....	2,224.20	421.12	698.90	554.37	17,214.86
Street light equipment, ornamental					
Miscellaneous construction expense	5,146.07	210.33	1,011.61	543.73	6,198.58
Steam or hydraulic plant.....					
Old plant.....	4,466.89	709.55			
Other plants not distributed.....					
Total plant.....	55,256.47	6,635.08	19,898.98	8,440.03	242,133.61
Bank and cash balance.....	1,530.06	38.54	1,083.97	11.24	4,486.67
Securities and investments.....	7,000.00				5,000.00
Accounts receivable.....	1,337.20	185.02	278.93	245.68	16,486.30
Inventories.....					6,695.86
Sinking fund on local debentures					
Equity in H-E.P.C. systems.....	15,644.86	1,487.73	1,963.21	197.12	47,019.61
Other assets.....					
Total assets.....	80,768.59	8,346.37	23,225.09	8,894.07	321,822.05
Deficit.....		313.02		12.32	
Total.....	80,768.59	8,659.39	23,225.09	8,906.39	321,822.05
<b>LIABILITIES</b>					
Debenture balance.....	22,296.56	3,652.63	12,256.51	7,500.00	58,000.00
Accounts payable.....	1,858.36			1,036.27	
Bank overdraft.....					
Other liabilities.....	466.23			15.00	4,954.72
Total liabilities.....	24,621.15	3,652.63	12,256.51	8,551.27	62,954.72
<b>RESERVES</b>					
For equity in H-E.P.C. systems....	15,644.86	1,487.73	1,963.21	197.12	47,019.61
For depreciation.....	9,741.70	1,171.66	1,515.75	158.00	14,839.75
Other reserves.....					964.53
Total reserves.....	25,386.56	2,659.39	3,478.96	355.12	62,823.89
<b>SURPLUS</b>					
Debentures paid.....	25,837.28	2,347.37	1,743.49		118,000.00
Local sinking fund.....					
Operating surplus.....	4,923.60		5,746.13		78,043.44
Total surplus.....	30,760.88	2,347.37	7,489.62		196,043.44
Total liabilities, reserves and surplus	80,768.59	8,659.39	23,225.09	8,906.39	321,822.05
Percentage of net debt to total assets	37.8	53.2	57.6	98.3	22.9

## "A"—Continued

## Hydro Municipalities as at December 31, 1932

Bloomfield 637	Bowman- ville 3,648	Brighton 1,431	Brockville 9,485	Cardinal 1,304	Carleton Place 4,269	Chesterville 912
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
410.00			45,295.14		6,255.32	250.00
11,144.26	43,954.11	14,022.42	1,000.87		2,471.63	
			81,719.59	9,998.35	40,121.37	7,713.68
2,230.77	7,305.91	3,881.96	34,914.66	2,003.01	9,914.91	2,993.20
2,655.50	16,753.54	6,419.03	41,610.30	2,062.27	16,240.90	4,040.31
908.20	2,671.96	821.98	20,228.24	331.51	6,631.90	526.97
1,403.42	2,449.80	288.24	3,328.95	730.58	3,787.63	664.68
			54,800.16			
			4,821.76	3,474.80	5,293.19	
18,752.15	73,135.32	25,433.63	287,719.67	18,600.52	90,716.85	16,188.84
263.31	7,208.31	25.00	6,779.99	778.22	3,176.95	1,657.29
470.68	3,174.43	3,391.26	135,000.00		19,000.00	9,000.00
	4,028.45	5,046.77	14,891.91	359.77	7,499.06	1,560.13
			2,386.81		722.88	595.95
			66,928.07			
2,120.14	5,560.89	2,906.02	80,957.62	977.62	35,365.68	15,728.92
21,606.28	93,107.40	36,802.68	594,664.07	20,716.13	156,481.42	44,731.13
21,606.28	93,107.40	36,802.68	594,664.07	20,716.13	156,481.42	44,731.13
7,605.98	68,795.42	23,410.60	76,249.18	14,070.04	46,051.24	2,593.33
663.89	1,824.91		19,736.76			78.10
		542.31				
	465.53	75.00	13.00		647.00	
8,269.87	71,085.86	24,027.91	95,998.94	14,070.04	46,698.24	2,671.43
2,120.14	5,560.89	2,906.02	80,957.62	977.62	35,365.68	15,728.92
3,484.96	1,768.50	1,642.00	65,334.48	653.00	9,013.37	7,155.27
			6,580.01			
5,605.10	7,329.39	4,548.02	152,872.11	1,630.62	44,379.05	22,884.19
3,594.02	2,204.58	1,589.40	150,408.36	929.96	19,948.76	3,906.67
			66,928.07			
4,137.29	12,487.57	6,637.35	128,456.59	4,085.51	45,455.37	15,268.84
7,731.31	14,692.15	8,226.75	345,793.02	5,015.47	65,404.13	19,175.51
21,606.28	93,107.40	36,802.68	594,664.07	20,716.13	156,481.42	44,731.13
42.4	81.2	70.9	6.5	71.3	38.6	9.2



## STATEMENT

## Balance Sheets of Electrical Departments of

EASTERN ONTARIO  
SYSTEM—Continued

Municipality.....	Cobourg	Deseronto	Finch	Hastings
Population.....	5,478	1,356	358	653
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....				
Substation equipment.....				
Distribution system—overhead...	61,702.02	9,632.31	7,387.84	13,862.66
Distribution system—underground				
Line transformers.....	15,455.82	1,442.62	1,393.35	1,771.80
Meters.....	21,402.04	4,771.27	1,728.20	2,742.98
Street light equipment, regular....	7,914.50	432.60	348.90	1,140.61
Street light equipment, ornamental				
Miscellaneous construction expense	1,004.14	233.88	23.24	715.80
Steam or hydraulic plant.....				
Old plant.....				1,744.98
Other plants not distributed.....				
Total plant.....	107,478.52	16,512.68	10,881.53	21,978.83
Bank and cash balance.....		1,091.23	2,565.34	1,601.74
Securities and investments.....				2,000.00
Accounts receivable.....	15,170.07	1,939.31	455.48	657.95
Inventories.....	4,762.55	470.44		
Sinking fund on local debentures...				
Equity in H-E.P.C. systems.....	3,427.31	1,307.52	1,499.69	457.18
Other assets.....				26.02
Total assets.....	130,838.45	21,321.18	15,402.04	26,721.72
Deficit.....				
Total.....	130,838.45	21,321.18	15,402.04	26,721.72
LIABILITIES				
Debenture balance.....	105,993.50	12,335.59	5,927.32	20,397.72
Accounts payable.....	2,097.79			210.07
Bank overdraft.....				
Other liabilities.....	3,544.26	189.64		2.00
Total liabilities.....	111,635.55	12,525.23	5,927.32	20,609.79
RESERVES				
For equity in H-E.P.C. systems...	3,427.31	1,307.52	1,499.69	457.18
For depreciation.....	2,091.00	569.92	885.00	592.60
Other reserves.....	3,291.15			
Total reserves.....	8,809.46	1,877.44	2,384.69	1,049.78
SURPLUS				
Debentures paid.....		2,664.41	1,072.68	602.28
Local sinking fund.....				
Operating surplus.....	10,393.44	4,254.10	6,017.35	4,459.87
Total surplus.....	10,393.44	6,918.51	7,090.03	5,062.15
Total liabilities, reserves and surplus	130,838.45	21,321.18	15,402.04	26,721.72
Percentage of net debt to total assets	87.6	62.6	42.6	78.4

## "A"—Continued

## Hydro Municipalities as at December 31, 1932

Havelock	Kemptville	Kingston	Lakefield	Lanark	Lancaster	Lindsay
1,082	1,227	22,534	1,458	573	590	7,174
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
572.90		184,945.77	214.79			10,477.65
19,583.50	19,297.68	45,599.79				3,176.56
		163,621.84	21,739.65	5,954.76	6,402.26	69,460.42
		134,365.59				
2,259.82	5,741.67	56,238.61	5,304.00	898.05	962.35	19,891.90
5,387.88	6,264.49	97,956.34	7,117.99	1,702.49	1,415.88	30,086.84
1,842.33	1,063.16	69,831.13	1,876.16	682.38	650.65	10,279.48
4,443.97	6,274.40	48,582.51	3,875.20	321.60	1,068.55	1,706.06
2,420.45		14,386.30	3,445.25			
36,510.85	38,641.40	815,527.88	43,573.04	9,559.28	10,499.69	145,078.91
1,863.93	1,512.31	90,853.17	6,004.27	1,310.69	311.26	16,013.56
7,000.00	20,000.00	89,175.00	10,000.00	1,982.05		46,500.00
110.49	4,236.22	32,194.09	158.31	402.60	36.81	1,078.35
	1,029.96	11,397.44				498.83
		87,164.85				
4,797.36	8,652.10		3,781.43	2,714.19	3,717.90	28,066.59
		1,000.00		22.16		
50,282.63	74,071.99	1,127,312.43	63,517.05	15,990.97	14,565.66	237,236.24
					6,215.72	
50,282.63	74,071.99	1,127,312.43	63,517.05	15,990.97	20,781.38	237,236.24
18,213.20	18,907.55	173,428.51	26,761.71	3,898.44	4,008.52	113,054.60
383.86	3,336.88	1,132.03	1,065.39		4,824.71	3,378.24
		271.00	340.17		58.50	1,740.51
18,597.06	22,244.43	174,831.54	28,167.27	3,898.44	8,891.73	118,173.35
4,797.36	8,652.10		3,781.43	2,714.19	3,717.90	28,066.59
6,269.47	6,026.22	108,774.62	9,065.63	1,591.15	2,209.85	13,604.07
		122,937.53				
11,066.83	14,678.32	231,712.15	12,847.06	4,305.34	5,927.75	41,670.66
14,686.80	6,092.45	138,471.49	6,738.29	3,663.03	5,961.90	16,945.40
		87,164.85				
5,931.94	31,056.79	495,132.40	15,764.43	4,124.16		60,446.83
20,618.74	37,149.24	720,768.74	22,502.72	7,787.19	5,961.90	77,392.23
50,282.63	74,071.99	1,127,312.43	63,517.05	15,990.97	20,781.38	237,236.24
40.8	34.0	8.4	47.2	29.4	81.9	56.5

# STATEMENT

## Balance Sheets of Electrical Departments of

### EASTERN ONTARIO SYSTEM—Continued

Municipality . . . . .	Madoc	Marmora	Martintown	Maxville
Population . . . . .	1,071	973	P.V.	747
<b>ASSETS</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>	<b>\$</b>
Lands and buildings . . . . .	100.00		126.15	
Substation equipment . . . . .				407.79
Distribution system—overhead . . . . .	7,969.57	12,584.38	2,703.12	11,411.15
Distribution system—underground . . . . .				
Line transformers . . . . .	2,157.50	2,296.49	690.33	1,495.94
Meters . . . . .	4,593.76	3,358.68	794.22	2,465.30
Street light equipment, regular . . . . .	1,500.00	1,088.59	335.26	1,605.64
Street light equipment, ornamental . . . . .				
Miscellaneous construction expense . . . . .	76.44	2,000.91	653.27	2,415.81
Steam or hydraulic plant . . . . .				
Old plant . . . . .		573.62		
Other plants not distributed . . . . .				
Total plant . . . . .	16,397.27	21,902.67	5,302.35	19,801.63
Bank and cash balance . . . . .	3,012.87	4,014.82	1,582.77	
Securities and investments . . . . .		749.37	1,000.00	
Accounts receivable . . . . .	651.50	274.93	122.01	1,782.45
Inventories . . . . .				
Sinking fund on local debentures . . . . .				
Equity in H-E.P.C. systems . . . . .	1,846.15	1,723.75	959.81	4,441.70
Other assets . . . . .				
Total assets . . . . .	21,907.79	28,665.54	8,966.94	26,025.78
Deficit . . . . .				
Total . . . . .	21,907.79	28,665.54	8,966.94	26,025.78
<b>LIABILITIES</b>				
Debenture balance . . . . .	1,410.68	8,456.84	3,248.42	8,481.15
Accounts payable . . . . .				378.53
Bank overdraft . . . . .				643.85
Other liabilities . . . . .		10.00	3.00	60.00
Total liabilities . . . . .	1,410.68	8,466.84	3,251.42	9,563.53
<b>RESERVES</b>				
For equity in H-E.P.C. systems . . . . .	1,846.15	1,723.75	959.81	4,441.70
For depreciation . . . . .	765.15	3,556.41	1,096.87	3,310.21
Other reserves . . . . .				
Total reserves . . . . .	2,611.30	5,280.16	2,056.68	7,751.91
<b>SURPLUS</b>				
Debentures paid . . . . .	12,589.32	9,209.27	2,751.58	7,518.85
Local sinking fund . . . . .				
Operating surplus . . . . .	5,296.49	5,709.27	907.26	1,191.49
Total surplus . . . . .	17,885.81	14,918.54	3,658.84	8,710.34
Total liabilities, reserves and surplus . . . . .	21,907.79	28,665.54	8,966.94	26,025.78
Percentage of net debt to total assets . . . . .	7.0	31.4	40.6	44.3



## "A"—Continued

## Hydro Municipalities as at December 31, 1932

Napanee	Norwood	Omemeë	Oshawa	Ottawa	Perth	Peterborough
2,981	742	457	23,687	127,332	3,915	22,798
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,173.32			56,776.03	337,378.21	6,851.01	75,202.75
	457.53	360.32		658,855.64	3,932.82	98,652.41
37,373.45	23,152.45	10,633.31	182,653.27	692,352.41	45,093.51	205,415.38
				212,771.51		
8,297.91	4,462.72	2,668.47	39,575.80	294,229.53	22,379.75	95,301.23
15,830.87	5,219.90	2,411.69	97,468.07	273,417.52	20,791.86	92,537.96
3,674.06	1,848.52	528.89	15,348.87	116,240.85	3,939.32	53,399.73
3,062.10	3,971.41	1,540.92	6,853.71	34,065.49	4,509.55	54,680.49
	2,447.51		8,831.65		23,610.69	29,771.74
70,411.71	41,560.04	18,143.60	407,507.40	2,619,311.16	131,108.51	704,961.69
1,067.11	6,021.16	1,310.55	27,420.06	1,694.59	12,582.80	60.00
	4,000.00			38,000.00	35,000.00	25,000.00
6,773.02	297.74	204.61	50,556.15	79,847.91	6,407.86	25,765.25
5,478.12			10,178.33	21,378.46	7,483.42	4,724.62
				610,835.04		203,350.04
10,888.37	2,285.20		151,491.31	38,711.28	29,643.76	96,111.68
			251.52			157.20
94,618.33	54,164.14	19,658.76	647,404.77	3,409,778.44	222,226.35	1,060,130.48
94,618.33	54,164.14	19,658.76	647,404.77	3,409,778.44	222,226.35	1,060,130.48
37,416.50	28,787.18	4,763.99	260,735.72	930,230.19	57,346.08	527,920.00
	89.18		37,537.57	33,946.46		11,088.89
				84,837.36		30,986.45
500.51	247.07	67.00	16,616.98		1,690.47	
37,917.01	29,123.43	4,830.99	314,890.27	1,049,014.01	59,036.55	569,995.34
10,888.37	2,285.20		151,491.31	38,711.28	29,643.76	96,111.68
3,816.15	8,182.56	5,542.69	28,375.75	872,267.17	32,044.34	83,017.06
2,938.22			15,302.08	141,282.13		7,020.20
17,642.74	10,467.76	5,542.69	195,169.14	1,052,260.58	61,688.10	186,148.94
32,583.50	8,312.82	7,236.01	49,264.28	49,769.81	51,053.92	
				610,835.04		203,350.04
6,475.08	6,260.13	2,049.07	88,081.08	647,899.00	50,447.78	100,636.16
39,058.58	14,572.95	9,285.08	137,345.36	1,308,503.85	101,501.70	303,986.20
94,618.33	54,164.14	19,658.76	647,404.77	3,409,778.44	222,226.35	1,060,130.48
45.3	56.1	24.6	63.5	15.9	30.6	48.2

# STATEMENT

## Balance Sheets of Electrical Departments of

### EASTERN ONTARIO SYSTEM—Continued

Municipality.....	Picton	Port Hope	Prescott	Richmond	Russell
Population.....	3,140	4,601	3,078	376	P.V.
ASSETS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Lands and buildings.....	1,405.07		2,761.54		
Substation equipment.....	2,004.66				
Distribution system—overhead....	39,319.17	47,316.83	38,853.86	6,089.12	7,716.76
Distribution system—underground					
Line transformers.....	11,832.23	11,593.11	13,072.50	769.40	1,382.48
Meters.....	16,429.31	19,302.21	18,070.88	1,136.31	1,458.78
Street light equipment, regular....	4,131.66	2,598.32	1,694.25	161.29	499.49
Street light equipment, ornamental					
Miscellaneous construction expense	2,716.36	853.86	1,278.88	612.67	1,199.88
Steam or hydraulic plant.....					
Old plant.....	3,105.28		11,808.35		
Other plants not distributed.....					
Total plant.....	80,943.74	81,664.33	87,540.26	8,768.79	12,257.39
Bank and cash balance.....	2,000.30	114.72		187.13	962.16
Securities and investments.....	14,000.00		3,000.00		
Accounts receivable.....	6,716.83	857.10	5,495.41	325.65	1,486.73
Inventories.....	4,252.79	1,306.36			
Sinking fund on local debentures...					
Equity in H-E.P.C. systems.....	16,322.07	13,778.49	22,626.61	625.24	2,519.15
Other assets.....					
Total assets.....	124,235.73	97,721.00	118,662.28	9,906.81	17,225.43
Deficit.....		3,793.23			
Total.....	124,235.73	101,514.23	118,662.28	9,906.81	17,225.43
LIABILITIES					
Debenture balance.....		30,770.09		5,727.07	7,629.09
Accounts payable.....	3,622.75	1,641.52	273.74	512.50	204.86
Bank overdraft.....			365.68		
Other liabilities.....	902.00	2,909.00			
Total liabilities.....	4,524.75	35,320.61	639.42	6,239.57	7,833.95
RESERVES					
For equity in H-E.P.C. systems...	16,322.07	13,778.49	22,626.61	625.24	2,519.15
For depreciation.....	10,003.36	4,185.22	28,683.72	660.87	1,254.29
Other reserves.....	1,554.13				
Total reserves.....	27,879.56	17,963.71	51,310.33	1,286.11	3,773.44
SURPLUS					
Debentures paid.....	5,730.32	48,229.91	23,979.34	772.93	2,370.91
Local sinking fund.....					
Operating surplus.....	86,101.10		42,733.19	1,608.20	3,247.13
Total surplus.....	91,831.42	48,229.91	66,712.53	2,381.13	5,618.04
Total liabilities, reserves and surplus	124,235.73	101,514.23	118,662.28	9,906.81	17,225.43
Percentage of net debt to total assets	4.2	42.1	0.7	67.2	53.3

“A”—Continued

Hydro Municipalities as at December 31, 1932

Smiths Falls	Stirling	Trenton	Tweed	Warkworth	Wellington	Westport
7,486	937	6,288	1,247	P.V.	904	675
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
19,928.85	8,410.00	5,114.41			200.00	
4,745.66	7,042.12	23,080.03			499.80	
85,527.40	5,007.22	81,491.57	10,164.77	5,488.18	14,624.05	7,125.76
24,637.41	3,732.12	19,422.24	3,002.41	684.66	3,652.05	974.17
32,081.70	4,759.69	24,739.28	4,696.02	1,495.28	5,168.68	1,353.44
9,296.63	1,020.00	13,459.54	1,020.60	299.74	1,131.40	526.70
6,895.68	1,426.88	3,275.16	421.31	612.19	777.28	1,285.76
38,001.49						
21,548.48				3,618.02	2,477.92	1,713.00
242,663.30	31,398.03	170,582.23	19,305.11	12,198.07	28,531.18	12,978.83
5,177.81	4,166.14	10,957.41		647.65	10.00	2,595.70
42,000.00	5,225.57			2,500.00	5,000.00	
6,338.48	1,328.60	5,376.54	1,219.52	85.69	735.57	808.77
367.58	1,273.49	6,688.92	1,642.78			
46,715.99	2,277.14	7,609.07	1,650.84	1,174.16	3,134.43	472.49
343,263.16	45,668.97	201,214.17	23,818.25	16,605.57	37,411.18	16,855.79
343,263.16	45,668.97	201,214.17	23,818.25	16,605.57	37,411.18	16,855.79
81,843.12		159,876.69	13,708.63	9,622.87	11,708.37	14,569.81
			984.78	193.36	5.14	
			321.65		1,847.65	
10.00		2,343.42	265.00			
81,853.12		162,220.11	15,280.06	9,816.23	13,561.16	14,569.81
46,715.99	2,277.14	7,609.07	1,650.84	1,174.16	3,134.43	472.49
57,059.77	9,072.18	3,209.00	1,516.13	1,002.32	4,798.78	199.00
103,775.76	11,349.32	10,818.07	3,166.97	2,176.48	7,833.21	671.49
115,781.88	10,000.00	5,123.31	5,291.37	1,377.13	5,291.63	430.19
41,852.40	24,319.65	23,052.68	79.85	3,235.73	10,625.18	1,184.30
157,634.28	34,319.65	28,175.99	5,371.22	4,612.86	15,916.81	1,614.49
343,263.16	45,668.97	201,214.17	23,818.25	16,605.57	37,411.18	16,855.79
27.6	0.0	83.8	68.9	63.6	39.6	88.8



# STATEMENT

## Balance Sheets of Electrical Departments of

### EASTERN ONTARIO SYSTEM—Concluded

Municipality.....	Whitby	Williamsburg	Winchester	EASTERN ONTARIO SYSTEM SUMMARY
Population.....	5,425	P.V.	980	
<b>ASSETS</b>	<b>\$</b>	<b>c.</b>	<b>\$</b>	<b>c.</b>
Lands and buildings.....	6,394.26		299.85	807,046.88
Substation equipment.....	34,200.41			889,809.59
Distribution system—overhead....	44,676.56	2,229.19	9,527.84	2,397,855.87
Distribution system—underground.....				347,137.10
Line transformers.....	10,806.25	1,173.37	2,479.20	792,122.96
Meters.....	14,143.43	1,429.18	4,816.23	1,005,680.90
Street light equipment, regular....	4,545.22	152.11	719.87	390,062.66
Street light equipment, ornamental.....				
Miscellaneous construction expense	5,898.16	4.00	457.62	235,558.76
Steam or hydraulic plant.....				92,801.65
Old plant.....	1,340.13		1,100.00	152,709.56
Other plants not distributed.....				
Total plant.....	122,004.42	4,987.85	19,400.61	7,110,785.93
Bank and cash balance.....	3,156.12	601.33	1,698.17	241,208.42
Securities and investments.....		2,500.00	7,000.00	536,631.99
Accounts receivable.....	4,113.67	824.92	1,150.06	315,867.02
Inventories.....	235.06		1,565.23	104,211.10
Sinking fund on local debentures.....				968,278.00
Equity in H-E.P.C. systems.....	16,234.96	1,952.97	9,717.34	753,264.65
Other assets.....				1,456.90
Total assets.....	145,744.23	10,867.07	40,531.41	10,031,704.01
Deficit.....				10,334.29
Total.....	145,744.23	10,867.07	40,531.41	10,042,038.30
<b>LIABILITIES</b>				
Debenture balance.....	40,148.50	410.16	6,489.76	3,096,709.06
Accounts payable.....	871.00	546.95	841.80	134,366.29
Bank overdraft.....				119,544.95
Other liabilities.....	698.97	233.47	5.00	39,344.45
Total liabilities.....	41,718.47	1,190.58	7,336.56	3,389,964.75
<b>RESERVES</b>				
For equity in H-E.P.C. systems....	16,234.96	1,952.97	9,717.34	753,264.65
For depreciation.....	13,565.96	1,683.90	6,220.66	1,453,247.49
Other reserves.....				301,869.98
Total reserves.....	29,800.92	3,636.87	15,938.00	2,508,382.12
<b>SURPLUS</b>				
Debentures paid.....	36,464.00	2,339.84	4,160.24	1,025,040.98
Local sinking fund.....				968,278.00
Operating surplus.....	37,760.84	3,699.78	13,096.61	2,150,372.45
Total surplus.....	74,224.84	6,039.62	17,256.85	4,143,691.43
Total liabilities, reserves and surplus	145,744.23	10,867.07	40,531.41	10,042,038.30
Percentage of net debt to total assets	32.2	11.0	23.8	29.1

## "A"—Concluded

## Hydro Municipalities as at December 31, 1932

THUNDER BAY  
SYSTEM

Fort William 24,470	Nipigon	Port Arthur 19,430	THUNDER BAY SYSTEM SUMMARY	ALL SYSTEMS GRAND SUMMARY
\$ c. 48,927.62 123,522.89 160,415.19	\$ c. 215.03 12,931.10	\$ c. 382,519.98 240,367.20 437,648.59	\$ c. 431,662.63 363,890.09 610,994.88	\$ c. 9,503,743.78 22,288,781.68 20,866,767.32
65,256.83 60,726.87 30,016.55	2,534.59 2,344.61 606.24	66,401.59 88,817.55 76,448.56	134,193.01 151,889.03 107,071.35	5,820,056.75 9,392,662.62 8,403,251.67
6,284.58 293,762.46	93.53	30,374.96 344,260.10	36,753.07 344,260.10 293,762.46	2,257,618.20 1,545,354.93 4,120,926.11
788,912.99 24,381.56 27,381.55	18,725.10 1,520.93 1,054.65	1,666,838.53 169,463.63 595,211.12	2,474,476.62 195,366.12 595,211.12	4,989,654.97 200,000.00 89,887,049.72
160,838.32 198,429.14	1,144.42	265,382.44 687,753.77 1,097.18	426,220.76 887,327.33 1,097.18	1,232,209.52 9,099,210.61 23,066,129.81
1,199,943.56	22,445.10	3,501,930.05	4,724,318.71	163,637.79
1,199,943.56	22,445.10	3,501,930.05	4,724,318.71	132,376,063.97 74,172.88
415,500.00 47,404.18 10,553.41	7,309.40 214.40	405,921.13 262,598.47	828,730.53 310,217.05 10,553.41	132,450,236.85
473,457.59	7,523.80	668,519.60	1,149,500.99	45,133,305.97 3,512,724.58 298,910.20 3,740,376.11
198,429.14 62,961.00 9,605.93	1,144.42 2,505.00	687,753.77 353,883.72 57,156.36	887,327.33 419,349.72 66,762.29	52,685.316.86
270,996.07	3,649.42	1,098,793.85	1,373,439.34	23,066,129.81 14,902,177.02 1,902,308.64
252,150.00 160,838.32 42,501.58	2,690.60 8,581.28	236,178.87 265,382.44 1,233,055.29	491,019.47 426,220.76 1,284,138.15	39,870,615.47
455,489.90	11,271.88	1,734,616.60	2,201,378.38	15,244,778.28 9,099,210.61 15,550,315.63
1,199,943.56	22,445.10	3,501,930.05	4,724,318.71	39,894,304.52
37.2	35.3	15.8	21.2	132,450,236.85
				43.4

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM

Municipality.....	Acton	Agincourt	Ailsa Craig 498	Alvinston	Amherst- burg 3,112
Population.....	1,930	P.V.		677	
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	10,037.45	4,976.86	2,511.55	4,468.52	20,941.59
Commercial light service.....	3,846.04	1,131.69	1,501.39	2,764.10	7,312.97
Commercial power service.....	15,846.44	1,515.05	3,066.68	467.13	6,040.57
Municipal power.....	655.59				
Street lighting.....	1,797.00	737.44	583.85	1,854.00	2,305.00
Merchandise.....					
Miscellaneous.....	81.97	59.49	241.03	102.79	374.18
Total earnings.....	32,264.49	8,420.53	7,904.55	9,656.54	36,974.31
EXPENSES					
Power purchased.....	24,937.43	5,318.48	6,096.82	7,813.58	22,560.70
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	2,408.84	156.49	339.92	100.18	3,090.29
Line transformer maintenance.....	89.58				46.27
Meter maintenance.....	178.17				546.61
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	489.18	75.00	112.65	34.81	583.28
Promotion of business.....	6.67				
Billing and collecting.....			94.52	231.37	1,840.82
General office, salaries and expenses.....	1,020.14	311.79	55.72	215.19	838.31
Undistributed expenses.....	685.01		39.24	34.68	244.32
Truck operation and maintenance...	286.97				322.92
Interest.....	63.41	295.98	1.61	797.05	1,583.13
Sinking fund and principal payments on debentures.....	618.65	531.88		993.72	1,236.93
Depreciation.....	1,304.00	350.00	474.00	573.00	1,774.00
Other reserves.....					
Total operating costs and fixed charges.....	32,088.05	7,039.62	7,214.48	10,793.57	34,667.58
Net surplus.....	176.44	1,380.91	690.07		2,306.73
Net loss.....				1,137.03	
NUMBER OF CONSUMERS					
Domestic service.....	481	141	128	159	637
Commercial light service.....	82	23	38	51	135
Power service.....	17	3	2	2	15
Total.....	580	167	168	212	787



“B”

Hydro Municipalities for Year Ended December 31, 1932

Ancaster Twp.	Arkona 397	Aylmer 1,998	Ayr 806	Baden P.V.	Beachville P.V.	Belle River 734	Blenheim 1,613
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
8,788.44	2,604.53	11,389.62	4,769.78	3,643.54	2,875.09	3,730.65	8,539.11
1,986.58	1,693.54	7,125.42	1,693.41	1,564.54	840.07	2,173.98	6,523.05
568.17	987.58	3,795.32	470.00	5,029.47	9,137.61	476.94	4,099.42
286.94		1,113.70				976.57	1,373.48
1,029.78	960.00	2,320.00	1,018.00	520.00	517.00	705.00	2,507.00
	2.66	1,108.90	12.69	65.74	608.52	207.21	216.98
12,659.91	6,248.31	26,852.96	7,963.88	10,823.29	13,978.29	8,270.35	23,259.04
7,526.26	4,402.26	15,818.66	5,523.77	8,717.33	13,483.21	4,605.31	15,379.26
1,516.71	97.43	3,451.73	116.09	296.70	389.15	393.77	1,872.92
188.94			18.16		71.06		286.29
138.30	26.36	188.13	145.46		99.18	44.06	203.50
200.76	75.79	152.13	196.38	190.62	95.34	89.33	403.93
	180.21	598.18	541.59	397.09	293.15	323.63	907.00
1,577.51	141.50	1,160.92	19.05	79.50	49.56	167.47	1,122.14
		246.42	15.00	36.42	29.32	38.37	597.14
562.55	600.94	1,294.13	383.57	125.58	145.14	372.82	611.89
274.62	533.85	1,213.79	333.34	199.68	212.65	368.29	449.85
793.00	310.00	1,370.00	530.00	370.00	615.00	595.00	1,310.00
12,778.65	6,368.34	25,494.09	7,822.41	10,412.92	15,482.76	6,998.05	23,143.92
		1,358.87	141.47	410.37		1,272.30	115.12
118.74	120.03				1,504.47		
269	96	625	200	136	128	191	495
41	36	130	45	25	23	55	126
5	3	12	3	3	4	4	12
315	135	767	248	164	155	250	633

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

**NIAGARA  
SYSTEM—Continued**

Municipality.....	Blyth	Bolton	Bothwell	Brampton	Brantford
Population.....	610	582	653	5,012	30,153
<b>EARNINGS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Domestic service.....	3,830.43	3,164.98	2,636.08	37,150.89	180,311.93
Commercial light service.....	1,805.95	949.11	1,330.35	16,475.40	61,036.75
Commercial power service.....	806.71	1,732.07	884.02	16,100.22	160,037.15
Municipal power.....			141.59	2,566.61	22,437.73
Street lighting.....	1,300.00	1,023.00	1,293.00	5,291.00	34,369.72
Merchandise.....				57.40	
Miscellaneous.....	3.77	5.24	611.28	1,253.24	5,662.26
Total earnings.....	7,746.86	6,874.40	6,896.32	78,894.76	463,855.54
<b>EXPENSES</b>					
Power purchased.....	4,870.23	4,767.96	5,000.46	60,418.89	298,538.00
Substation operation.....				140.64	7,310.95
Substation maintenance.....					399.35
Distribution system, operation and maintenance.....	379.08	402.25	142.54	3,339.95	15,124.55
Line transformer maintenance.....				291.22	64.95
Meter maintenance.....			55.81	401.79	2,703.77
Consumers' premises expenses.....					405.67
Street lighting, operation and maintenance.....	73.28	201.61	111.43	473.37	3,406.75
Promotion of business.....			25.99		377.98
Billing and collecting.....			186.52	1,695.36	10,308.80
General office, salaries and expenses.....	177.25	425.86	120.07	1,138.13	12,273.43
Undistributed expenses.....	73.20		47.93	853.50	7,708.79
Truck operation and maintenance.....				596.95	3,279.59
Interest.....	594.80	361.25	203.02	930.52	29,448.70
Sinking fund and principal payments on debentures.....	936.26	509.75	160.66	2,908.19	*44,971.00
Depreciation.....	414.00	526.00	517.00	4,177.00	21,965.00
Other reserves.....					
Total operating costs and fixed charges.....	7,518.10	7,194.68	6,571.43	77,365.42	458,287.28
Net surplus.....	228.76		324.89	1,529.34	5,568.26
Net loss.....		320.28			
<b>NUMBER OF CONSUMERS</b>					
Domestic service.....	162	159	170	1,367	7,317
Commercial light service.....	51	39	51	232	1,105
Power service.....	4	9	6	56	221
Total.....	217	207	227	1,655	8,643

\*Includes 9 months' operation and revenue from other plants not distributed.

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1932

Brantford Twp.	Bridgeport P.V.	Brigden P.V.	Brussels 726	Burford P. . V.	Burgess- ville P.V.	Caledonia 1,400	Campbell- ville P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
18,886.13	3,662.83	2,457.40	5,448.47	4,481.37	1,257.47	5,443.78	1,316.91
3,861.02	1,039.46	1,908.38	2,702.08	950.37	533.79	4,665.35	465.48
4,401.51	654.69	922.26	719.07	1,480.59	1,066.75	2,320.15	.....
4,382.00	575.00	1,166.00	1,281.00	742.62	312.00	1,529.04	456.00
705.27	.....	43.30	12.48	249.03	.....	99.60	55.10
32,235.93	5,931.98	6,497.34	10,163.10	7,903.98	3,170.01	14,057.92	2,293.49
17,105.10	5,013.65	4,959.97	6,188.92	4,903.50	3,248.03	8,382.92	1,592.23
1,003.79	238.00	260.06	364.44	354.69	263.06	1,392.18	31.75
214.82	48.29	.....	.....	74.54	.....	78.20	.....
312.91	30.60	87.50	.....	.....	.....	97.81	.....
716.23	91.34	133.08	82.26	124.44	24.48	191.90	9.35
2,083.79	212.44	371.67	.....	430.81	126.75	456.75	.....
1,585.89	208.12	238.72	534.42	15.22	23.42	606.70	116.06
68.57	26.00	.....	.....	114.49	11.25	95.39	16.50
1,748.40	597.71	87.15	833.04	54.63	65.88	135.22	245.59
3,050.68	.....	256.10	924.30	346.58	241.70	226.86	242.64
2,499.00	488.00	338.00	539.00	461.00	191.00	740.00	106.00
30,389.18	6,954.15	6,732.25	9,466.38	6,879.90	4,195.57	12,403.93	2,360.12
1,846.75	.....	.....	696.72	1,024.08	.....	1,653.99	.....
.....	1,022.17	234.91	.....	.....	1,025.56	.....	66.63
753	114	108	220	188	54	326	42
45	20	41	65	33	21	90	8
5	4	4	2	4	3	7	.....
803	138	153	287	225	78	423	50



STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Cayuga	Chatham	Chippawa	Clifford	Clinton
Population.....	660	16,434	1,243	515	1,873
<b>EARNINGS</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>	<b>\$ c.</b>
Domestic service.....	3,235.95	80,191.86	7,120.10	2,319.73	11,900.80
Commercial light service.....	2,594.46	70,132.08	1,296.81	1,678.52	6,085.53
Commercial power service.....	1,444.69	55,752.04	771.52	126.44	4,463.98
Municipal power.....		4,716.21	848.86		935.26
Street lighting.....	1,386.00	18,943.77	1,092.00	854.00	1,986.98
Merchandise.....		100.74			
Miscellaneous.....		888.18		26.05	1,053.31
Total earnings.....	8,661.10	230,724.88	11,129.29	5,004.74	26,425.86
<b>EXPENSES</b>					
Power purchased.....	4,627.37	121,779.94	5,353.91	3,568.37	16,154.88
Substation operation.....		6,943.33			
Substation maintenance.....		2,416.10			
Distribution system, operation and maintenance.....	585.50	8,118.34	1,142.13	23.49	412.45
Line transformer maintenance.....	9.00	1,128.46			33.58
Meter maintenance.....	11.00	5,075.91	42.62	18.50	276.56
Consumers' premises expenses.....					
Street lighting, operation and maintenance.....	137.10	3,637.09	212.69	26.07	93.72
Promotion of business.....		473.35			
Billing and collecting.....	643.52	9,533.29		291.55	791.54
General office, salaries and expenses.....	181.82	15,049.36	678.62	78.00	2,540.03
Undistributed expenses.....	37.58	5,769.99		28.04	464.03
Truck operation and maintenance.....		1,935.27			144.84
Interest.....	833.77	15,387.37	502.20	395.82	2,389.65
Sinking fund and principal payments on debentures.....	834.38	13,560.28	701.84	160.65	1,305.66
Depreciation.....	545.00	15,205.67	862.00	268.00	1,816.00
Other reserves.....		2,886.93			
Total operating costs and fixed charges.....	8,446.04	228,900.68	9,496.01	4,858.49	26,422.94
Net surplus.....	215.06	1,824.20	1,633.28	146.25	2.92
Net loss.....					
<b>NUMBER OF CONSUMERS</b>					
Domestic service.....	118	3,600	282	107	514
Commercial light service.....	54	720	36	41	134
Power service.....	4	104	7	1	15
Total.....	176	4,424	325	149	663

“B”--Continued

Hydro Municipalities for Year Ended December 31, 1932

Comber	Cottam	Courtright	Dashwood	Delaware	Dorchester	Drayton	Dresden
P.V.	P.V.	353	P.V.	P.V.	P.V.	552	1,451
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,459.02	2,611.33	1,773.94	1,829.01	1,338.99	2,579.49	3,042.64	6,152.73
2,427.19	1,525.83	1,005.87	963.88	709.57	862.89	1,849.18	5,256.48
2,919.95	630.70	105.06	1,118.61		285.28	1,192.08	5,031.97
		762.31					428.06
732.00	450.00	774.00	492.00	264.00	649.00	750.00	1,834.34
69.85	43.76	14.51	83.16	143.12	102.96	294.55	134.12
8,608.01	5,261.62	4,435.69	4,486.66	2,455.68	4,479.62	7,128.45	18,837.70
6,319.88	2,712.56	2,898.41	3,159.05	1,407.12	2,942.24	5,459.42	11,734.79
192.16	120.53	8.07	46.70	47.81	20.26	241.32	1,353.40
					13.06		
36.45	242.39				31.94	26.41	
67.48	111.13	43.50	41.81	17.34	95.39	61.00	259.25
378.77			84.78		229.04		576.28
399.13	434.66	203.83		130.00	9.61	246.61	830.75
53.63			20.25		11.25	36.53	92.15
151.91	415.78	281.96	136.07	123.03	138.47	439.09	103.81
448.69	337.36	559.86	105.75	138.01	141.25	271.68	658.50
417.00	325.00	207.00	196.00	155.00	322.00	492.00	841.00
8,465.10	4,699.41	4,202.63	3,790.41	2,018.31	3,954.51	7,274.06	16,449.93
142.91	562.21	233.06	696.25	437.37	525.11		2,387.77
						145.61	
98	103	55	66	53	126	154	372
49	30	23	26	16	28	55	120
3	1	2	1		1	5	13
150	134	80	93	69	155	214	505

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

**NIAGARA  
SYSTEM—Continued**

Municipality.....	Drumbo	Dublin	Dundas	Dunnville	Dutton
Population.....	P.V.	P.V.	5,137	3,506	785
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,132.56	1,341.55	21,701.90	13,295.04	3,597.40
Commercial light service.....	982.73	925.35	11,804.96	11,581.89	2,632.86
Commercial power service.....	850.57	514.18	18,539.12	12,637.94	3,728.43
Municipal power.....			773.11	2,583.17	
Street lighting.....	507.00	750.00	6,115.93	3,943.72	973.50
Merchandise.....			75.00		
Miscellaneous.....	46.73		65.70	706.35	211.60
Total earnings.....	4,519.59	3,531.08	59,075.72	44,748.11	11,143.79
EXPENSES					
Power purchased.....	2,583.18	2,200.58	37,049.55	25,032.78	7,723.55
Substation operation.....					
Substation maintenance.....			104.22		
Distribution system, operation and maintenance.....	143.21	35.46	6,360.71	1,873.88	209.28
Line transformer maintenance.....			134.10		86.59
Meter maintenance.....	31.19	2.10	1,683.54	284.25	114.35
Consumers' premises expenses.....					
Street lighting, operation and maintenance.....	128.51	115.98	554.66	309.30	121.77
Promotion of business.....					15.05
Billing and collecting.....	168.42	143.50	1,179.08		454.25
General office, salaries and expenses.....	101.16	21.39	2,024.60	2,694.58	333.15
Undistributed expenses.....	13.25	22.25	942.67	288.95	66.94
Truck operation and maintenance.....			633.66	188.03	
Interest.....	137.49	186.03	1,425.09	3,527.32	325.90
Sinking fund and principal payments on debentures.....	155.24	418.01	1,977.79	2,350.33	320.68
Depreciation.....	261.00	260.00	3,888.00	2,949.00	527.00
Other reserves.....					
Total operating costs and fixed charges.....	3,722.65	3,405.30	57,957.67	39,498.42	10,298.51
Net surplus.....	796.94	125.78	1,118.05	5,249.69	845.28
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	83	42	1,204	729	204
Commercial light service.....	24	20	199	196	74
Power service.....	2	3	38	33	7
Total.....	109	65	1,441	958	285



## “B”—Continued

## Hydro Municipalities for Year Ended December 31, 1932

East Windsor 16,081	East York Twp.	Elmira 2,761	Elora 1,317	Embro 437	Erieau 260	Erie Beach 20	Essex 1,888
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
74,200.28	174,276.29	16,408.91	7,433.89	2,767.51	3,773.37	1,532.87	8,276.85
18,724.69	22,009.23	5,522.87	3,559.68	1,731.85	1,079.43	286.43	5,655.04
35,990.63	25,874.86	4,004.84	6,791.62	1,282.12	857.57		4,149.87
	3,828.83	815.96					1,891.75
8,419.92	19,071.97	1,840.00	1,818.00	658.00	360.00		3,215.49
			74.74				
	152.53	677.13	305.52	16.25	44	1.62	368.43
137,335.52	245,213.71	29,269.71	19,983.45	6,455.73	6,070.81	1,820.92	23,557.43
79,666.48	153,493.35	23,129.00	12,943.33	3,818.65	4,173.54	939.94	11,818.52
4,823.01	10,717.14	1,438.22	2,245.20	311.30	238.02	150.67	295.88
384.66	1,186.95				16.20		20.76
4,749.07	3,488.16	44.49	58.25		74.21		50.74
2,359.44	967.36	159.03					
2,816.27	2,194.66	108.76	86.21	155.68	35.30		257.10
179.95	110.35	56.88					
11,436.79	10,176.70	838.83	657.04	290.01	336.56		942.08
2,668.66	11,120.51	707.64	490.78	110.14	61.84	147.90	1,851.08
2,386.93	2,906.66	985.99	428.48	26.06	103.32	7.50	423.23
	4,661.95	163.73	145.83				266.08
4,240.82	16,135.53	1,774.52	275.26	245.18	332.27	187.40	1,096.81
6,346.29	13,537.50	1,490.03	696.33	410.24	306.57	120.03	451.85
7,733.00	12,096.00	1,898.00	1,044.00	456.00	310.00	73.00	1,571.00
	222.00						
129,791.37	243,014.82	32,795.12	19,070.71	5,823.26	5,987.83	1,626.44	19,045.13
7,544.15	2,198.89		912.74	632.47	82.98	194.48	4,512.30
		3,525.41					
2,860	8,535	501	314	98	156	62	435
262	356	122	76	46	13	3	106
37	36	18	3	1	2		15
3,159	8,927	641	393	145	171	65	556

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Etobicoke Twp.	Exeter	Fergus	Fonthill	Forest
Population.....		1,622	2,585	833	1,425
<b>EARNINGS</b>					
	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	89,959.94	11,747.51	15,488.79	4,995.94	10,790.20
Commercial light service.....	16,742.13	5,010.52	7,198.65	960.76	5,107.63
Commercial power service.....	12,430.10	4,341.40	9,337.85	316.58	4,414.48
Municipal power.....	2,294.81	546.34	897.56	227.70	1,002.97
Street lighting.....	12,958.52	1,981.56	2,718.41	1,063.75	2,321.00
Merchandise.....					
Miscellaneous.....	1,019.46	579.22			611.61
Total earnings.....	135,404.96	24,206.55	35,641.26	7,564.73	24,247.89
<b>EXPENSES</b>					
Power purchased.....	79,543.58	14,886.59	23,627.66	4,067.21	15,596.96
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	7,645.06	760.06	1,221.30	569.81	1,399.77
Line transformer maintenance.....	1,185.65	46.50	15.74		
Meter maintenance.....	758.85	275.25	439.63	114.23	235.28
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	1,308.98	332.03	436.95	31.18	481.29
Promotion of business.....		53.41	13.93		19.09
Billing and collecting.....	4,339.49	533.07	355.91		640.25
General office, salaries and expenses.....	3,873.25	2,834.28	1,126.45	503.93	1,819.72
Undistributed expenses.....	2,404.36	263.23	257.29		226.15
Truck operation and maintenance....	1,856.64	244.36	291.06		340.92
Interest.....	12,346.57	504.32	1,316.06	1,070.73	704.08
Sinking fund and principal payments on debentures.....	10,936.36	914.73	2,682.89	968.78	1,001.72
Depreciation.....	9,916.00	1,342.00	1,450.00	455.00	1,372.00
Other reserves.....					
Total operating costs and fixed charges.....	136,114.79	22,989.83	33,234.87	7,780.87	23,837.23
Net surplus.....		1,216.72	2,406.39		410.66
Net loss.....	709.83			216.14	
<b>NUMBER OF CONSUMERS</b>					
Domestic service.....	3,001	452	610	193	461
Commercial light service.....	247	119	113	27	133
Power service.....	26	10	15	4	21
Total.....	3,274	581	738	224	615

## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1932

Galt 13,960	George- town 1,997	Glencoe 767	Goderich 4,324	Granton P.V.	Guelph 21,201	Hagers- ville 1,285	Hamilton 150,065
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
105,155.34	13,898.39	5,625.60	29,003.83	1,850.91	102,151.29	4,945.37	924,806.69
43,334.59	5,686.35	3,408.41	13,430.86	995.19	46,424.45	4,705.53	358,727.52
73,769.17	21,464.11	1,939.89	12,435.37	880.92	94,290.38	19,130.75	1,403,670.20
4,186.52	527.16	1,226.02	3,020.62	.....	9,558.16	.....	68,836.31
22,414.88	2,115.33	1,934.00	3,791.50	370.00	20,199.01	1,732.00	118,954.03
.....	.....	.....	.....	.....	.....	18.82	.....
3,375.74	485.71	18.63	130.02	129.76	2,077.85	685.23	46,224.38
252,236.24	44,177.05	14,152.55	61,812.20	4,226.78	274,701.14	31,217.70	2,921,219.13
161,017.52	34,503.01	10,615.89	42,511.06	3,157.59	203,591.38	22,369.48	2,009,947.40
4,432.52	.....	.....	1,617.97	.....	3,272.09	.....	68,481.07
133.15	.....	.....	.....	.....	.....	.....	15,337.43
1,769.01	1,658.02	452.56	2,782.89	58.71	9,112.72	2,461.71	46,150.73
736.66	4.65	.....	638.55	.....	2,100.79	17.25	9,547.88
3,228.31	140.87	.....	495.73	123.51	3,662.62	86.78	17,079.59
.....	.....	.....	.....	.....	.....	.....	13,992.42
3,084.61	349.81	219.21	427.94	52.31	6,871.78	188.25	14,400.77
1,757.50	.....	.....	.....	.....	920.22	.....	19,881.96
3,102.67	.....	552.41	643.27	127.62	5,095.67	576.20	48,871.29
3,072.82	2,957.77	486.99	3,047.97	64.21	7,643.67	609.77	51,317.37
9,226.99	239.80	72.09	685.13	18.75	4,602.83	195.90	42,393.87
567.15	630.48	242.89	253.81	.....	1,739.85	565.37	.....
16,903.72	789.79	577.88	2,809.09	141.84	2,888.44	194.83	244,150.52
17,664.28	722.09	930.29	2,123.43	112.43	5,460.45	355.97	285,141.94
22,285.00	1,922.00	869.00	4,969.00	215.00	12,795.00	1,063.00	122,386.00
.....	.....	.....	.....	.....	.....	.....	.....
248,981.91	43,918.29	15,019.21	63,005.84	4,071.97	269,757.51	28,684.51	3,009,080.24
3,254.33	258.76	.....	.....	154.81	4,943.63	2,533.19	.....
.....	.....	866.66	1,193.64	.....	.....	.....	87,861.11
3,554	666	222	1,169	82	4,964	305	36,639
494	121	82	242	31	738	102	5,177
112	25	6	18	1	139	16	1,308
4,160	812	310	1,429	114	5,841	423	43,124



## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Harriston	Harrow	Hensall	Hespeler	Highgate
Population.....	1,301	907	745	2,711	334
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	7,649.31	8,738.71	4,139.83	18,802.31	1,899.23
Commercial light service.....	4,725.11	4,359.48	1,986.89	5,484.50	993.79
Commercial power service.....	5,175.22	5,169.54	2,899.27	32,081.11	1,314.85
Municipal power.....	469.52			998.39	
Street lighting.....	1,265.13	1,215.25	996.00	2,846.58	561.00
Merchandise.....					
Miscellaneous.....		16.35	164.63	145.38	146.67
Total earnings.....	19,284.29	19,499.33	10,186.62	60,358.27	4,915.54
EXPENSES					
Power purchased.....	12,621.73	12,427.12	7,190.02	47,597.24	3,461.40
Substation operation.....				392.55	
Substation maintenance.....				43.60	
Distribution system, operation and maintenance.....	1,385.07	193.35	283.78	2,872.09	232.11
Line transformer maintenance.....		99.64		69.61	
Meter maintenance.....	118.25	351.58	33.11	105.28	22.30
Consumers' premises expenses.....					
Street lighting, operation and maintenance.....	137.26	297.08	139.12	530.15	109.96
Promotion of business.....					
Billing and collecting.....	705.49	532.69	314.44	827.42	362.78
General office, salaries and expenses.....	264.93	221.87	472.33	1,255.56	132.55
Undistributed expenses.....	87.62	29.39	75.67	604.19	20.25
Truck operation and maintenance.....	239.66			158.48	
Interest.....	734.55	563.61	427.45	2,129.46	169.81
Sinking fund and principal payments on debentures.....	1,525.91	490.50	434.98	2,593.57	157.20
Depreciation.....	913.00	667.00	600.00	2,423.00	317.00
Other reserves.....					
Total operating costs and fixed charges.....	18,733.47	15,873.83	9,970.90	61,602.20	4,985.36
Net surplus.....	550.82	3,625.50	215.72		
Net loss.....				1,243.93	69.82
NUMBER OF CONSUMERS					
Domestic service.....	331	242	181	658	98
Commercial light service.....	100	76	58	105	35
Power service.....	13	5	13	28	6
Total.....	444	323	252	791	139

## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1932

Humber- stone 2,419	Ingersoll 5,000	Jarvis 482	Kingsville 2,245	Kitchener 31,114	Lambeth P.V.	La Salle 609	Leaming- ton 4,912
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
9,222.35	32,219.41	2,273.18	12,429.74	194,660.72	3,733.60	7,714.49	24,796.90
2,802.69	15,484.06	2,040.79	6,732.34	105,541.11	1,557.94	2,151.97	14,322.56
2,819.52	22,815.90	4,538.87	2,764.27	204,184.44		2,818.29	11,297.59
	1,888.33		1,185.80	20,721.65	479.51		4,780.34
1,367.00	4,841.20	840.00	3,477.16	33,649.47	453.00	990.00	5,891.51
	169.73			743.44			
242.31	566.57	50.77	1,146.51	1,726.43	8.00	38.12	1,044.08
16,453.87	77,985.20	9,743.61	27,735.82	561,227.26	6,232.05	13,712.87	62,132.98
8,796.53	59,235.18	7,160.55	15,209.18	393,327.79	3,896.48	7,787.46	35,073.18
	706.16			8,798.18			
				2,716.43			
1,093.07	2,225.60	170.46	1,602.58	15,732.06	176.46	856.53	4,016.78
	376.59		186.79	600.34			35.52
171.20	619.00		308.66	5,773.34		2.25	252.80
168.95	695.00	29.34	477.01	11,888.75	21.27	112.13	645.24
				1,036.59			
	1,673.43	510.73	1,475.23	12,162.21		591.55	1,544.24
857.59	5,256.24	52.71	842.83	10,205.42	238.74	357.28	3,049.93
	700.06	28.29	704.87	10,160.05	15.00	63.25	932.02
169.77	657.89		199.04	2,837.96		255.26	482.43
1,309.65	3,317.00	417.59	1,796.55	11,980.44	168.63	753.65	2,222.83
1,200.00	1,677.35	462.14	637.14	22,937.43	128.53	597.71	1,962.03
1,013.00	3,412.00	375.00	1,821.00	29,358.17	314.00	762.00	3,069.00
				2,625.53			
14,779.76	80,551.50	9,206.81	25,260.88	542,140.69	4,959.11	12,139.07	53,286.00
1,674.11		536.80	2,474.94	19,086.57	1,272.94	1,573.80	8,846.98
	2,566.30						
486	1,312	116	702	7,004	109	199	1,315
65	249	41	173	961	26	25	249
7	45	4	14	246	2	5	26
558	1,606	161	889	8,211	137	229	1,590

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Listowel	London	London Twp.	Long Branch	Lucan
Population.....	2,688	71,310		3,537	547
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	17,844.57	484,819.17	10,836.52	23,730.14	5,022.45
Commercial light service.....	8,503.19	201,201.31	2,353.85	5,465.06	1,770.44
Commercial power service.....	11,705.38	344,339.45	1,410.34	1,048.94	951.78
Municipal power.....	1,501.38	54,655.00		909.54	
Street lighting.....	3,831.60	54,071.71	832.50	3,405.30	1,065.00
Merchandise.....					
Miscellaneous.....	498.93	28,956.59	164.91	494.21	274.39
Total earnings.....	43,885.05	1,168,043.23	15,598.12	35,053.19	9,084.06
EXPENSES					
Power purchased.....	31,133.77	735,627.73	10,302.89	19,906.12	5,092.31
Substation operation.....		16,168.96			
Substation maintenance.....	76.75	9,254.91			
Distribution system, operation and maintenance.....	2,319.46	6,199.04	507.26	3,653.08	993.49
Line transformer maintenance.....	12.26	2,852.42		101.59	
Meter maintenance.....	109.60	11,257.22	166.26	274.12	
Consumers' premises expenses.....		5,648.30			
Street lighting, operation and main- tenance.....	326.93	10,811.01	219.71	409.17	99.10
Promotion of business.....		6,424.42			
Billing and collecting.....	775.48	24,629.18	492.76	2,071.02	331.27
General office, salaries and expenses.....	566.87	45,719.47	468.15	1,921.62	400.32
Undistributed expenses.....	504.75	10,829.28	22.73	869.09	76.30
Truck operation and maintenance.....	172.75	5,521.23			
Interest.....	642.49	35,416.23	705.70	2,453.14	241.46
Sinking fund and principal payments on debentures.....	1,628.95	74,869.17	912.62	1,431.29	246.43
Depreciation.....	2,408.00	88,813.77	662.00	2,071.00	600.00
Other reserves.....		10,663.24			
Total operating costs and fixed charges.....	40,678.06	1,100,705.58	14,460.08	35,161.24	8,080.68
Net surplus.....	3,206.99	67,337.65	1,138.04		1,003.38
Net loss.....				108.05	
NUMBER OF CONSUMERS					
Domestic service.....	715	16,472	318	1,019	174
Commercial light service.....	153	2,802	20	104	44
Power service.....	22	488	3	4	7
Total.....	890	19,762	341	1,127	225



“B”—Continued

Hydro Municipalities for Year Ended December 31, 1932

Lynden	Markham	Merlin	Merritton	Milton	Milverton	Mimico	Mitchell
P.V.	1,001	P.V.	2,515	1,825	1,064	6,422	1,609
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,006.59	6,525.34	2,277.52	11,583.92	11,477.39	5,625.34	55,887.61	10,861.65
835.43	2,675.76	1,709.85	2,274.63	5,465.18	2,726.53	9,412.69	4,497.52
809.96	3,283.33	2,184.51	63,547.92	14,055.71	4,464.86	3,659.68	4,159.15
.....	476.20	.....	.....	.....	383.57	4,808.43	846.86
445.79	1,596.00	688.00	3,343.00	1,905.00	999.00	8,681.07	2,088.00
.....	.....	.....	.....	.....	.....	.....	1,045.43
3.85	158.95	295.79	.....	652.52	142.62	178.37	133.81
4,101.62	14,715.58	7,155.67	80,749.47	33,555.80	14,341.92	82,627.85	23,642.42
.....	.....	.....	.....	.....	.....	.....	.....
2,993.40	9,311.36	4,648.38	60,994.53	21,010.73	11,434.40	51,035.66	15,042.73
.....	.....	.....	.....	279.67	.....	289.50	467.70
.....	.....	.....	.....	.....	.....	.....	.....
147.46	1,169.92	330.84	2,650.77	2,265.11	423.92	8,109.33	554.54
.....	.....	38.37	41.10	.....	.....	333.35	.....
29.70	.....	57.55	527.82	92.41	34.49	404.30	396.85
.....	.....	.....	.....	.....	.....	.....	.....
29.94	219.32	126.22	558.68	179.96	106.99	1,330.82	62.77
.....	.....	.....	.....	.....	.....	.....	.....
177.75	.....	248.16	950.20	803.40	552.13	1,768.11	869.77
9.93	981.20	212.64	967.25	2,249.40	269.59	1,850.27	1,552.36
20.00	.....	15.00	590.32	284.52	221.79	554.07	768.46
.....	229.96	.....	397.91	342.34	.....	533.69	113.04
163.12	112.55	569.99	976.41	1,609.06	229.37	4,337.41	2.66
.....	.....	.....	.....	.....	.....	.....	.....
146.16	352.14	607.00	1,425.28	1,528.43	641.81	4,583.13	.....
.....	.....	.....	.....	.....	.....	.....	.....
255.00	733.00	347.94	2,080.00	2,178.30	650.00	5,242.00	2,812.00
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
3,972.46	13,109.45	7,202.09	72,160.27	32,823.33	14,564.49	80,371.64	22,642.88
.....	.....	.....	.....	.....	.....	.....	.....
129.16	1,606.13	.....	8,589.20	732.47	.....	2,256.21	999.54
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	46.42	.....	.....	222.57	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
82	274	106	700	465	227	1,745	426
20	69	42	60	106	72	136	109
1	9	2	11	20	8	14	23
103	352	150	771	591	307	1,895	558

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Moore- field P.V.	Mount Brydges P.V.	Newbury 312	New Hamburg 1,462	New Toronto 6,437
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	928.00	2,892.63	1,296.42	10,630.73	34,424.55
Commercial light service.....	723.73	1,027.96	1,076.74	4,120.58	12,232.83
Commercial power service.....	1,316.10	922.86	843.97	4,036.33	100,983.26
Municipal power.....					10,133.30
Street lighting.....	375.00	490.00	720.00	2,256.95	8,647.98
Merchandise.....				357.65	
Miscellaneous.....	62.84	221.74	14.39		
Total earnings.....	3,405.67	5,555.19	3,951.52	21,402.24	166,421.92
EXPENSES					
Power purchased.....	2,711.38	3,542.35	2,440.19	14,882.44	138,972.75
Substation operation.....					
Substation maintenance.....				436.52	
Distribution system, operation and maintenance.....	38.37	439.87	124.34	430.36	6,141.90
Line transformer maintenance.....		44.96		92.39	280.67
Meter maintenance.....		60.73		339.60	756.21
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	39.26	37.60	40.33	303.70	2,097.32
Promotion of business.....					
Billing and collecting.....		174.31		588.82	2,641.02
General office, salaries and expenses.....	123.17	112.86	138.55	824.00	5,013.85
Undistributed expenses.....		24.00	20.25	170.62	1,284.16
Truck operation and maintenance.....				238.55	1,671.91
Interest.....	115.63	145.60	324.00	508.75	298.90
Sinking fund and principal payments on debentures.....	274.86	144.76	500.00	754.79	289.79
Depreciation.....	178.00	280.00	276.00	1,282.00	5,014.00
Other reserves.....					
Total operating costs and fixed charges.....	3,480.67	5,007.04	3,863.66	20,852.54	164,462.48
Net surplus.....		548.15	87.86	549.70	1,959.44
Net loss.....	75.00				
NUMBER OF CONSUMERS					
Domestic service.....	55	130	62	347	1,610
Commercial light service.....	29	40	27	92	167
Power service.....	2	3	2	13	28
Total.....	86	173	91	452	1,805

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1932

Niagara Falls 18,678	Niagara-on-the-Lake 1,657	North York Twp.	Norwich 1,071	Oil Springs 448	Otterville P.V.	Palmerston 1,750	Paris 4,263
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
144,088.85	14,446.79	89,239.85	8,160.12	1,693.00	2,041.41	10,572.35	24,635.93
61,319.99	3,707.03	13,701.59	3,139.55	1,078.61	1,736.94	5,017.80	8,570.76
52,937.47	838.97	29,184.44	1,511.30	7,936.25	530.67	4,740.96	12,460.37
14,587.49	1,616.49	3,885.01	578.57	.....	112.42	1,634.44	1,225.00
29,755.81	2,777.76	5,083.67	2,120.00	750.00	753.00	1,718.25	5,674.90
.....	398.63	.....	171.15	.....	.....	.....	.....
34.50	50.76	2,120.56	185.18	410.52	157.50	4.89	3,370.18
302,724.11	23,836.43	143,215.12	15,865.87	11,868.38	5,331.94	23,688.69	55,937.14
.....	.....	.....	.....	.....	.....	.....	.....
179,112.83	12,691.16	80,574.64	11,325.00	7,782.04	3,797.52	16,293.21	32,545.58
10,096.41	.....	.....	.....	.....	.....	.....	253.28
.....	.....	.....	.....	.....	.....	.....	.....
7,727.21	2,260.81	7,692.00	1,535.80	577.01	248.17	1,048.68	4,923.20
422.50	.....	524.55	.....	.....	13.03	6.16	.....
5,923.60	122.84	1,879.66	83.32	64.09	7.40	293.49	336.52
.....	.....	.....	.....	.....	.....	.....	.....
3,108.58	436.25	1,014.09	286.93	92.52	59.14	249.61	872.16
.....	.....	.....	.....	.....	.....	.....	.....
7,695.45	.....	4,633.42	439.49	391.77	271.01	847.07	1,469.60
9,337.22	1,940.93	4,805.16	310.38	246.38	116.68	712.49	441.45
6,258.75	.....	2,878.77	366.98	246.51	24.00	136.54	1,300.18
3,465.77	334.47	3,277.67	210.07	.....	.....	81.74	339.71
21,704.61	1,287.79	16,858.72	361.33	441.27	84.38	451.32	1,895.39
.....	.....	.....	.....	.....	.....	.....	.....
23,176.50	898.39	13,083.10	538.41	1,064.33	310.75	813.98	1,588.47
22,413.00	1,436.00	10,307.00	790.00	656.00	365.00	1,219.00	4,723.00
.....	.....	.....	.....	.....	.....	.....	.....
300,442.43	21,408.64	147,528.79	16,247.71	11,561.92	5,297.08	22,153.29	50,688.54
2,281.68	2,427.79	.....	.....	306.46	34.86	1,535.40	5,248.60
.....	.....	4,313.67	381.84	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....
4,287	466	2,679	349	74	106	398	1,056
686	74	221	86	26	43	102	180
87	10	35	7	32	4	10	25
5,060	550	2,935	442	132	153	510	1,261



## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Parkhill	Petrolia	Plattsville	Point Edward	Port Colborne
Population.....	968	2,431	P.V.	1,114	6,494
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	4,929.28	11,406.60	2,526.52	6,052.32	28,498.60
Commercial light service.....	3,088.29	6,379.26	1,075.00	1,786.59	12,601.87
Commercial power service.....	963.04	21,742.26	575.88	16,966.50	7,413.57
Municipal power.....	531.28				6,499.80
Street lighting.....	1,437.00	2,652.00	510.00	1,629.30	7,829.99
Merchandise.....					
Miscellaneous.....	12.60	556.81	9.27	651.29	549.49
Total earnings.....	10,961.49	42,736.93	4,696.67	27,086.00	63,393.32
EXPENSES					
Power purchased.....	7,594.12	30,441.43	3,218.46	20,967.58	36,866.98
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	295.28	2,963.05	175.08	378.91	2,718.80
Line transformer maintenance.....		431.50		104.65	540.09
Meter maintenance.....		201.57	4.50	34.95	1,252.92
Consumers' premises expenses.....					
Street lighting, operation and maintenance.....	143.26	129.25	23.60	246.57	2,135.15
Promotion of business.....					1,586.22
Billing and collecting.....	291.16	504.10	164.80		1,756.01
General office, salaries and expenses.....	175.92	2,217.19	12.10	1,871.72	3,398.20
Undistributed expenses.....	30.36	380.37	20.25		608.75
Truck operation and maintenance.....		238.88			1,372.90
Interest.....	467.38	1,600.67	160.03	590.47	5,872.04
Sinking fund and principal payments on debentures.....	940.01	2,115.28	180.64	892.15	6,407.40
Depreciation.....	662.00	2,677.00	232.00	984.00	4,024.00
Other reserves.....					
Total operating costs and fixed charges.....	10,599.49	43,900.29	4,191.46	26,071.00	68,539.46
Net surplus.....	362.00		505.21	1,015.00	
Net loss.....		1,163.36			5,146.14
NUMBER OF CONSUMERS					
Domestic service.....	240	679	98	296	1,222
Commercial light service.....	75	167	24	43	228
Power service.....	5	53	1	10	21
Total.....	320	899	123	349	1,471

## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1932

Port Credit 1,600	Port Dalhousie 1,394	Port Dover 1,584	Port Rowan 676	Port Stanley 694	Preston 6,173	Princeton P.V.	Queenston P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
12,416.24	12,985.94	8,019.11	3,431.75	12,117.75	44,740.49	2,317.28	2,669.09
4,754.90	2,498.83	4,944.95	1,949.94	3,248.87	17,012.71	689.89	264.46
716.78	4,316.92	5,832.62	117.40	4,417.28	34,971.22	3,026.47	765.67
1,178.13				692.65	943.60		
2,680.00	1,630.00	2,569.00	1,242.00	1,963.44	4,973.62	481.00	566.16
66.17				258.26	572.36	21.26	32.00
21,812.22	21,431.69	21,365.68	6,741.09	22,698.25	103,214.00	6,535.90	4,297.38
15,891.33	14,104.74	13,015.85	4,161.42	13,473.60	70,252.02	5,060.62	2,397.16
					4,284.65		
987.55	1,443.40	575.19	92.46	2,286.13	4,631.23	137.23	2.00
70.30	63.19	17.97		81.18	367.08		
		141.26	17.80	355.49	776.69	1.70	
365.67	194.15	390.08	37.53	156.19	765.56	30.43	72.20
		4.27					
1,116.24	699.92	419.89	242.07	659.62	1,638.54	230.57	
329.73	599.66	243.28	192.47	509.91	1,202.09	2.34	343.92
113.04	122.84	133.26	28.36	137.91	1,111.62	15.00	
	291.98			226.05	399.46		
456.78	748.16	1,084.09	1,096.09	450.57	3,126.20	108.47	370.49
495.36	1,054.83	1,975.92	377.51	782.25	5,817.32	122.46	439.50
1,399.00	892.00	1,203.00	324.00	1,163.00	7,840.00	235.00	301.00
21,225.00	20,214.87	19,204.06	6,569.71	20,281.90	102,212.46	5,943.82	3,926.27
587.22	1,216.82	2,161.62	171.38	2,416.35	1,001.54	592.08	371.11
399	590	464	97	572	1,548	78	65
75	58	130	35	78	233	19	10
5	10	12	1	16	51	3	1
479	658	606	133	666	1,832	100	76

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Richmond Hill 1,235	Ridgetown 1,990	Riverside 5,125	Rockwood P.V.	Rodney 738
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	7,425.30	9,433.23	39,734.22	3,076.71	3,393.12
Commercial light service.....	3,662.71	5,071.28	4,978.35	1,010.10	3,164.78
Commercial power service.....	2,375.93	4,060.91	6,991.71	293.69	1,842.26
Municipal power.....	383.77	823.04	3,236.57		
Street lighting.....	1,389.00	3,367.46	4,181.42	750.75	1,028.72
Merchandise.....	76.96	30.77			
Miscellaneous.....	98.69	672.67	135.70	25.42	151.02
Total earnings.....	15,412.36	23,459.36	59,257.97	5,156.67	9,579.90
EXPENSES					
Power purchased.....	9,760.31	16,302.84	37,467.54	3,969.46	6,615.99
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	1,414.79	1,170.63	1,749.56	226.42	322.35
Line transformer maintenance.....		27.50	257.51		
Meter maintenance.....		150.75	1,955.67	8.36	287.33
Consumers' premises expenses.....			1,020.84		
Street lighting, operation and main- tenance.....	203.45	284.99	1,317.61	89.61	191.50
Promotion of business.....			62.80		
Billing and collecting.....		970.27	3,913.97		390.81
General office, salaries and expenses.....	691.68	894.05	1,435.71	516.21	236.43
Undistributed expenses.....		393.62	1,066.52		38.24
Truck operation and maintenance.....		111.42			
Interest.....	290.29	425.41	3,666.09	125.00	299.71
Sinking fund and principal payments on debentures.....	644.47	337.41	3,548.71	75.61	261.97
Depreciation.....	505.00	1,290.00	3,711.00	419.00	406.00
Other reserves.....					
Total operating costs and fixed charges.....	13,509.99	22,358.89	61,173.53	5,429.67	9,050.33
Net surplus.....	1,902.37	1,100.47			529.57
Net loss.....			1,915.56	273.00	
NUMBER OF CONSUMERS					
Domestic service.....	331	550	1,102	144	198
Commercial light service.....	64	141	50	35	71
Power service.....	15	24	8	2	7
Total.....	410	715	1,160	181	276



## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1932

St. Catharines 25,645	St. Clair Beach 114	St. George P.V.	St. Jacobs P.V.	St. Marys 4,032	St. Thomas 16,582	Sandwich 11,408
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
145,074.32	2,154.10	2,777.28	3,581.79	30,749.98	105,753.69	86,747.73
47,241.11	1,415.56	894.23	1,157.09	9,399.75	46,918.27	17,751.29
77,607.95	441.44	2,188.36	802.86	16,486.01	45,284.12	12,838.00
22,252.82		304.00	460.00	2,675.17	5,424.26	9,668.67
4,670.78		103.10	142.08	58.08		317.32
				532.39	2,774.08	1,839.36
296,846.98	4,011.10	6,266.97	6,143.82	63,446.92	220,769.70	129,162.37
181,021.24	3,120.61	5,639.19	5,021.85	46,801.18	148,015.87	94,386.14
5,972.96				1,350.00	6,568.45	
				157.26	340.38	
15,127.53	348.71	27.91	38.81	1,941.87	8,100.48	1,111.68
1,371.74	1.56			398.28	656.80	342.42
5,318.50	121.03	55.50	25.15	800.65	1,606.75	902.06
297.39	34.96				1,436.33	
3,750.28		57.70	52.16	1,289.75	1,700.11	1,849.10
1,185.75					75.43	
10,378.32	204.60	497.36		1,368.03	4,100.73	5,466.44
10,716.79	31.54	62.68	372.88	1,345.69	12,316.96	5,998.81
5,061.14	117.47	49.88	15.00	739.31	5,611.41	2,079.54
4,916.63				383.20	2,315.85	1,107.82
13,008.47	249.17	208.07	137.93	2,413.98	1,783.03	6,706.29
12,602.59	311.90	204.76	364.16	2,748.50	5,006.36	6,096.49
16,628.00	302.00	304.00	333.00	4,163.00	12,120.00	5,501.00
287,357.33	4,843.55	7,107.05	6,360.94	65,900.70	211,754.94	131,547.79
9,489.65					9,014.76	
	832.45	840.08	217.12	2,453.78		2,385.42
6,396	48	133	104	1,030	3,974	2,302
707	7	35	28	194	641	198
147	2	3	6	41	78	27
7,250	57	171	138	1,265	4,693	2,527

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Sarnia	Scarboro' Twp.	Seaforth	Simcoe	Springfield
Population.....	17,540		1,688	5,263	387
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	104,014.86	94,006.56	10,759.68	19,137.87	1,711.37
Commercial light service.....	48,013.12	17,553.61	5,506.36	24,353.79	694.73
Commercial power service.....	162,863.53	8,705.47	4,631.68	23,769.40	1,421.47
Municipal power.....		11,356.48	668.24	2,685.70	
Street lighting.....	18,322.96	16,208.44	1,788.00	4,383.91	550.00
Merchandise.....	218.85		443.52		
Miscellaneous.....	1,912.75	410.95	667.23	1,144.08	383.75
Total earnings.....	335,346.07	148,241.51	24,444.71	75,474.75	4,761.32
EXPENSES					
Power purchased.....	227,119.74	81,757.32	15,919.83	43,974.09	3,473.71
Substation operation.....	5,788.77			526.98	
Substation maintenance.....	1,368.46	70.17	8.60		
Distribution system, operation and maintenance.....	8,028.15	5,452.14	2,335.65	3,885.05	217.52
Line transformer maintenance.....	1,908.70	1,584.73	87.48	112.69	
Meter maintenance.....	2,860.45	1,380.93	59.29	1,329.68	
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	4,875.16	2,603.78	313.56	1,070.48	39.15
Promotion of business.....	464.74				
Billing and collecting.....	5,905.49	5,261.14	821.74	1,750.31	316.78
General office, salaries and expenses.....	12,120.54	6,545.86	370.48	1,983.64	31.60
Undistributed expenses.....	6,381.07	3,104.21	241.32	438.71	30.33
Truck operation and maintenance.....	2,699.22	1,879.32	117.09	765.88	
Interest.....	10,079.91	11,762.41	1,269.49	3,095.35	218.59
Sinking fund and principal payments on debentures.....	19,287.40	12,647.85	445.75	2,802.01	159.87
Depreciation.....	17,030.00	10,358.00	1,717.00	3,185.00	326.00
Other reserves.....					
Total operating costs and fixed charges.....	325,917.80	144,407.86	23,707.28	64,919.87	4,813.55
Net surplus.....	9,428.27	3,833.65	737.43	10,554.88	
Net loss.....					52.23
NUMBER OF CONSUMERS					
Domestic service.....	4,496	4,343	485	1,084	89
Commercial light service.....	623	350	116	306	36
Power service.....	85	38	15	38	4
Total.....	5,204	4,731	616	1,428	129

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1932

Stamford Twp.	Stouffville 1,117	Stratford 18,626	Strathroy 2,870	Sutton 805	Tavistock 995	Tecumseh 2,550	Thames- ford P.V.
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
51,865.70	7,278.39	150,119.36	20,186.60	8,156.87	7,320.11	14,163.53	2,428.02
7,006.93	2,783.22	52,937.52	10,600.21	3,473.05	2,121.18	3,018.22	1,450.24
3,609.35	711.37	47,550.41	8,957.66	1,318.98	8,020.32	2,473.94	2,898.03
1,862.46	.....	10,741.17	1,443.88	.....	414.49	.....	.....
7,997.37	1,764.00	16,434.00	4,343.46	1,906.50	1,212.00	1,049.50	517.00
534.98	.....	.....	208.81	.....	.....	.....	.....
.....	286.52	5,766.46	941.53	114.10	268.76	.....	386.09
72,876.79	12,823.50	283,548.92	46,682.15	14,969.50	19,356.86	20,705.19	7,679.38
36,897.99	7,972.42	203,032.78	29,007.73	8,774.27	18,111.49	12,549.14	5,632.60
396.11	.....	4,600.36	231.45	.....	.....	.....	.....
.....	.....	1,287.02	46.98	.....	.....	.....	.....
4,183.10	652.33	6,335.76	1,274.35	309.99	477.13	1,216.96	204.68
89.80	.....	919.72	99.98	.....	15.85	106.29	94.22
644.15	.....	2,434.28	465.71	.....	142.41	1,088.05	44.03
.....	.....	.....	.....	.....	.....	392.25	.....
961.62	177.45	3,742.71	553.48	151.36	230.00	369.80	49.77
.....	.....	1,424.10	.....	.....	.....	28.73	.....
3,693.39	.....	5,612.85	1,030.65	.....	643.49	1,789.81	107.50
4,031.25	423.71	4,756.07	2,206.74	665.85	153.05	246.61	156.20
1,930.77	.....	7,686.98	469.82	.....	77.17	517.99	28.00
2,064.86	.....	870.88	386.74	.....	.....	.....	.....
9,764.43	526.62	21,775.00	1,946.62	1,042.34	202.56	1,457.10	105.99
10,008.67	1,433.95	10,022.36	2,480.33	1,276.40	187.74	1,236.33	195.90
5,695.00	478.00	19,230.00	3,209.00	783.00	746.00	1,429.00	419.00
.....	.....	.....	.....	.....	.....	.....	.....
80,361.14	11,664.48	293,730.87	43,409.58	13,003.21	20,986.89	22,428.06	7,037.89
.....	1,159.02	.....	3,272.57	1,966.29	.....	.....	641.49
7,484.35	.....	10,181.95	.....	.....	1,630.03	1,722.87	.....
1,654	327	4,335	797	385	260	499	119
74	83	640	170	82	71	50	38
12	4	140	27	5	5	4	7
1,740	414	5,115	994	472	336	553	164



## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Thames- ville 786	Thedford 515	Thorndale P.V.	Thorold 5,068	Tilbury 1,929
Population.....					
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	3,947.55	2,923.17	1,394.97	19,233.01	7,083.69
Commercial light service.....	3,230.42	1,926.26	1,007.23	6,480.51	7,659.86
Commercial power service.....	1,951.04	554.57	243.22	27,371.79	9,174.68
Municipal power.....	256.21			3,526.63	390.56
Street lighting.....	1,191.00	1,035.00	382.10	3,551.00	1,563.72
Merchandise.....					
Miscellaneous.....	322.31	79.20			558.05
Total earnings.....	10,898.53	6,518.20	3,027.52	60,162.94	26,430.56
EXPENSES					
Power purchased.....	6,880.14	4,419.09	2,780.38	46,990.75	16,785.27
Substation operation.....				2,204.96	
Substation maintenance.....					
Distribution system, operation and maintenance.....	528.76	198.53	14.00	2,697.11	1,965.35
Line transformer maintenance.....					
Meter maintenance.....	175.89		3.75	547.32	55.55
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	225.46	97.07	33.78	552.71	117.82
Promotion of business.....					
Billing and collecting.....	319.39	172.38	65.53	1,220.52	515.16
General office, salaries and expenses.....	323.80	74.85	2.70	655.38	581.19
Undistributed expenses.....	57.26	38.35	20.25	574.85	241.92
Truck operation and maintenance.....				388.64	
Interest.....	294.95	639.13	85.27	32.67	474.02
Sinking fund and principal payments on debentures.....	535.00	803.28	82.92	640.88	601.20
Depreciation.....	705.00	361.00	220.00	2,615.00	1,069.00
Other reserves.....					
Total operating costs and fixed charges.....	10,045.65	6,803.68	3,308.58	59,120.79	22,406.48
Net surplus.....	852.88			1,042.15	4,024.08
Net loss.....		285.48	281.06		
NUMBER OF CONSUMERS					
Domestic service.....	218	129	62	1,180	428
Commercial light service.....	79	39	23	190	137
Power service.....	7	3	1	15	15
Total.....	304	171	86	1,385	580

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1932

Tillson- burg 3,287	Toronto 621,596	Toronto Twp.	Trafalgar Twp. Area No. 1	Trafalgar Twp. Area No. 2	Walkerville 11,351	Wallaceburg 4,501
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
14,747.42	3,735,109.87	59,049.56	14,465.91	5,856.62	102,105.01	18,336.77
12,767.44	2,989,958.80	14,120.05	632.39		31,822.21	10,345.93
9,716.28	3,299,006.51	7,181.69	554.08		139,568.63	43,023.73
863.71	1,323,981.04					1,593.86
3,283.55	528,737.84	4,975.20			12,746.46	4,477.82
39.58						
1,090.23	266,601.46	915.97	81.00	64.61	4,468.17	945.09
42,508.21	12,143,395.52	86,242.47	15,733.38	5,921.23	290,710.48	78,723.20
27,198.12	6,401,270.00	47,830.64	7,513.60	2,523.24	202,171.68	59,617.67
978.68	228,712.99				6,844.65	246.60
	241,920.13				1,550.89	
3,063.34	387,990.45	4,293.72	2,415.30	547.60	3,737.26	1,772.30
148.34	42,390.21	110.09			293.02	337.99
428.02	114,408.85	700.83	121.11	22.35	3,426.75	893.40
	308,403.82				1,664.11	
415.75	132,745.80	610.79			2,988.95	540.67
	195,797.83				7,232.31	524.04
848.15	351,700.92	3,201.58			6,939.40	1,967.01
3,259.85	373,814.80	4,340.97	1,328.43	512.05	10,732.65	2,143.07
771.70	*135,469.45	1,319.26	148.46	49.21	4,674.99	1,581.13
496.92		1,493.03	401.82		1,920.93	691.64
613.98	1,552,368.90	4,132.64	707.41	523.43	9,807.61	2,879.82
988.29	1,185,200.09	4,846.92	880.28		14,477.60	2,597.82
3,033.00	794,694.43	7,897.00	1,074.00	259.00	15,927.00	4,627.00
	26,356.80					
42,244.14	12,473,245.47	80,777.47	14,590.41	4,436.88	294,389.80	80,420.16
264.07		5,465.00	1,142.97	1,484.35		
	329,849.95				3,679.32	1,696.96
873	150,428	1,713	279	132	2,468	1,010
228	26,093	180	2		321	223
32	5,163	23	12		96	29
1,133	181,684	1,916	293	132	2,885	1,262

\*Includes \$45,817.88 York Twp. debenture charges.

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Continued

Municipality.....	Wardsville	Waterdown	Waterford	Waterloo	Watford
Population.....	182	887	1,096	8,550	915
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	1,125.21	5,830.34	6,762.81	58,917.14	6,754.27
Commercial light service.....	1,163.68	1,740.68	1,807.72	21,678.50	3,408.05
Commercial power service.....		2,046.16	3,776.92	25,849.06	2,588.70
Municipal power.....		228.23	236.26	3,427.50	388.50
Street lighting.....	700.00	930.00	1,608.00	7,475.66	1,341.84
Merchandise.....				342.87	.32
Miscellaneous.....	60.21		374.26		282.71
Total earnings.....	3,049.10	10,775.41	14,565.97	117,690.73	14,764.39
EXPENSES					
Power purchased.....	2,142.57	6,926.25	12,071.03	80,395.25	10,810.82
Substation operation.....				3,299.28	
Substation maintenance.....				200.10	
Distribution system, operation and maintenance.....	92.55	534.54	468.30	3,559.20	818.89
Line transformer maintenance.....		99.41		23.73	
Meter maintenance.....		42.98	63.60	858.99	63.71
Consumers' premises expenses.....					
Street lighting, operation and maintenance.....	40.81	99.78	288.78	802.14	103.67
Promotion of business.....					
Billing and collecting.....		457.71	549.10	1,996.59	524.35
General office, salaries and expenses.....	182.60	226.42	367.77	3,618.52	672.47
Undistributed expenses.....		193.23	65.80	812.99	25.21
Truck operation and maintenance.....				1,370.64	254.14
Interest.....	327.40	94.17		3,478.59	161.32
Sinking fund and principal payments on debentures.....	389.47	494.23		4,367.78	675.47
Depreciation.....	227.00	770.00	957.00	8,338.00	713.00
Other reserves.....				200.00	
Total operating costs and fixed charges.....	3,402.40	9,938.72	14,831.38	113,321.80	14,823.05
Net surplus.....		836.69		4,368.93	
Net loss.....	353.30		265.41		58.66
NUMBER OF CONSUMERS					
Domestic service.....	52	224	302	1,852	280
Commercial light service.....	23	36	70	250	79
Power service.....		7	10	65	5
Total.....	75	267	382	2,167	364



“B”—Continued

Hydro Municipalities for Year Ended December 31, 1932

Welland 10,338	Wellesley P.V.	West Lorne 812	Weston 4,618	Wheatley 765	Windsor 68,079	Wood- bridge 786	Woodstock 10,840
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
51,243.01	2,751.98	3,346.87	38,349.66	4,817.06	494,148.42	5,916.60	77,151.03
30,114.92	1,129.38	1,567.00	9,498.51	2,888.15	244,324.22	1,610.71	39,570.84
60,032.45	1,717.36	1,758.02	29,227.20	1,772.87	180,644.38	3,916.97	47,163.07
3,933.07			2,883.69	446.76	11,701.36	406.71	3,101.55
11,052.52	720.00	1,010.04	7,847.45	1,856.00	76,272.21	830.04	8,003.40
							151.63
5,401.96	25.25		302.77	114.50		9.67	4,320.02
161,777.93	6,343.97	7,681.93	88,109.28	11,895.34	1,007,090.59	12,690.70	179,461.54
95,529.18	5,309.33	4,355.37	65,255.14	7,136.61	607,443.60	10,041.33	132,317.71
4,912.80			248.96		17,166.33		2,524.02
550.09			447.42		9,059.66		102.10
7,203.41	308.23	181.04	4,729.85	1,009.93	18,630.12	444.23	5,702.80
382.40		5.44	276.87	21.68	3,053.27		58.12
3,382.51		15.87	301.36	141.17	11,443.48		989.63
120.29					22,553.21		
1,668.01	61.52	154.46	1,282.03	353.23	17,713.17	169.86	2,227.85
211.09					11,155.30		
4,208.64		538.07		362.02	37,034.84		3,408.65
9,015.70	481.29	185.73	3,867.19	250.00	27,850.53	560.75	5,002.66
2,304.33	92.88	17.30	913.66	47.92	18,374.71		3,104.45
1,587.74			647.87		14,980.47		942.84
15,845.16	183.47	338.52	2,275.97	530.91	75,062.22	567.30	3,504.03
9,681.01	488.62	242.52	2,862.78	572.18	81,029.09	276.38	2,606.72
11,968.53	290.00	570.00	4,660.00	559.00	63,220.00	672.00	11,240.00
168,570.89	7,215.34	6,604.32	87,769.10	10,984.65	1,035,770.00	12,731.85	173,731.58
		1,077.61	340.18	910.69			5,729.96
6,792.96	871.37				28,679.41	41.15	
2,247	110	191	1,232	184	14,434	229	2,895
433	39	53	174	56	2,290	41	467
78	6	3	29	4	326	7	90
2,758	155	247	1,435	244	17,050	277	3,452

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

NIAGARA  
SYSTEM—Concluded

Municipality.....	Wyoming	*York Twp.	Zurich	NIAGARA SYSTEM SUMMARY
Population.....	475		P.V.	
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	2,542.85	504,558.79	3,199.76	9,289,139.75
Commercial light service.....	1,769.55	57,152.14	2,032.88	5,193,755.09
Commercial power service.....	209.06	92,725.72		7,510,882.57
Municipal power.....				1,676,243.47
Street lighting.....	750.00	51,422.17	693.00	1,394,716.81
Merchandise.....				5,636.42
Miscellaneous.....	8.17	12,255.27	115.82	428,708.53
Total earnings.....	5,279.63	718,114.09	6,041.46	25,499,082.64
EXPENSES				
Power purchased.....	3,832.79	323,898.38	4,868.08	15,208,493.90
Substation operation.....		25,411.14		426,220.48
Substation maintenance.....				288,317.22
Distribution system, operation and maintenance.....	157.57	19,443.64	207.26	784,186.43
Line transformer maintenance.....		3,470.62		81,729.50
Meter maintenance.....		5,286.65		241,906.42
Consumers' premises expenses.....		26,378.49		359,455.42
Street lighting, operation and main- tenance.....	53.61	8,949.90	44.43	280,587.34
Promotion of business.....		4,885.97		251,105.95
Billing and collecting.....	125.00	40,013.33	190.96	677,084.30
General office, salaries and expenses.....	197.10	29,660.56	20.40	780,874.73
Undistributed expenses.....	21.89	26,362.32	24.00	337,296.80
Truck operation and maintenance.....				86,614.51
Interest.....	188.15	163,474.09	224.94	2,279,691.90
Sinking fund and principal payments on debentures.....	707.11	20,697.65	165.56	2,037,378.48
Depreciation.....	367.00	19,182.00	361.00	1,551,538.81
Other reserves.....				42,954.50
Total operating costs and fixed charges.....	5,650.22	717,114.74	6,106.63	25,715,436.69
Net surplus.....		999.35		
Net loss.....	370.59		65.17	216,354.05
NUMBER OF CONSUMERS				
Domestic service.....	122		121	359,878
Commercial light service.....	47		47	58,344
Power service.....	2			10,708
Total.....	171		168	428,930

\*For year ended December 31, 1931. Included in Toronto figures. Not added in Summary

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1932

GEORGIAN BAY SYSTEM							
Alliston	Arthur	Barrie	Beaverton	Beeton	Bradford	Brechin	Cannington
1,367	993	7,411	931	552	964	P.V.	856
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
8,829.32	4,625.59	51,192.96	7,101.87	3,658.83	6,164.08	1,039.57	5,012.57
4,530.56	3,690.53	30,472.73	2,468.24	2,589.06	3,379.21	942.21	2,453.03
1,709.99	1,634.13	14,964.21	2,073.01	2,604.02	3,019.75	1,060.85	635.87
1,243.01	172.42	905.20			334.72		
2,070.00	1,782.00	5,950.00	994.02	1,185.00	1,206.00	576.00	967.00
		132.80		4.44			
106.93	.33	1,677.29	718.12	15.18	107.70	20.70	156.18
18,489.81	11,905.00	105,295.19	13,355.26	10,056.53	14,211.46	3,639.33	9,224.65
13,001.59	10,446.56	81,840.97	8,915.90	8,898.22	9,034.73	2,681.22	6,991.51
		553.14					
850.92	496.55	4,383.59	707.72	75.45	401.80	412.68	611.63
		161.71					
		695.44					
223.91	70.03	1,638.94	288.68	48.94	106.08	67.80	134.88
							21.06
773.25		3,471.01					
78.25	429.07	1,211.39	754.16	416.26	906.08	110.30	618.60
142.42		1,148.61					
		701.19					
1,846.88	1,107.59	2,991.09	435.68	550.04	1,238.47	247.63	535.91
1,307.49	680.59	2,569.55	562.23	425.73	788.05	93.31	575.74
1,320.00	883.00	6,737.00	1,124.00	560.00	867.00	132.00	625.00
19,544.71	14,113.39	108,103.63	12,788.37	10,974.64	13,342.21	3,744.94	10,114.33
			566.89		869.25		
1,054.90	2,208.39	2,808.44		918.11		105.61	889.68
352	178	1,850	289	122	213	43	243
103	75	347	64	39	64	41	69
16	4	43	10	6	8	4	12
471	257	2,240	363	167	285	88	324



## STATEMENT

## Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY  
SYSTEM—Continued

Municipality.....	Chatsworth	Chesley	Coldwater	Colling- wood 5,730	Cooks- town P.V.
Population.....	263	1,804	641		
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	1,362.79	8,684.71	2,852.51	27,536.36	2,279.66
Commercial light service.....	1,217.78	4,226.90	1,605.84	10,759.87	1,366.48
Commercial power service.....		8,476.33	4,227.24	21,818.02	889.30
Municipal power.....		827.83		1,787.66	
Street lighting.....	451.00	1,596.00	571.00	3,376.00	952.00
Merchandise.....		44.23		174.41	
Miscellaneous.....	79.49	667.38	300.27	1,502.75	44.71
Total earnings.....	3,111.06	24,523.38	9,556.86	66,955.07	5,532.15
EXPENSES					
Power purchased.....	2,221.63	18,143.46	8,326.00	55,113.05	2,988.37
Substation operation.....					
Substation maintenance.....				42.65	
Distribution system, operation and maintenance.....	59.81	573.47	339.53	1,595.74	154.94
Line transformer maintenance.....				47.81	
Meter maintenance.....				134.27	
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	39.90	163.47	67.40	290.78	64.20
Promotion of business.....					
Billing and collecting.....		337.55		2,854.05	
General office, salaries and expenses.....	249.32	780.41	363.67	2,891.07	262.35
Undistributed expenses.....				584.81	
Truck operation and maintenance.....		28.00		332.12	
Interest.....	285.47	565.06	255.36	838.64	492.63
Sinking fund and principal payments on debentures.....	211.59	1,830.81	253.33	1,916.24	778.31
Depreciation.....	245.00	1,154.00	508.00	3,620.00	476.00
Other reserves.....					
Total operating costs and fixed charges.....	3,312.72	23,576.23	10,113.29	70,261.23	5,216.80
Net surplus.....		947.15			315.35
Net loss.....	201.66		556.43	3,306.16	
NUMBER OF CONSUMERS					
Domestic service.....	70	427	137	1,413	105
Commercial light service.....	24	107	54	265	32
Power service.....		21	3	54	4
Total.....	94	555	194	1,732	141

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1932

Creemore 606	Dundalk 655	Durham 1,779	Elmvale P.V.	Elmwood P.V.	Flesherton 462	Grand Valley 570	Graven- hurst 1,896
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,725.15	2,584.72	6,259.06	2,664.97	1,114.90	2,613.29	3,530.97	7,790.76
1,901.19	2,276.72	4,090.64	1,756.38	566.88	1,706.59	2,494.77	5,989.79
1,478.67	2,141.36	4,992.61	3,052.77	1,373.45	98.47	1,362.92	7,179.42
.....	.....	759.38	137.74	.....	.....	.....	637.94
590.16	980.00	1,824.00	660.00	483.00	574.00	832.00	2,064.07
.....	.....	.....	.....	.....	.....	.....	286.53
190.41	220.00	563.81	175.64	53.02	32.78	174.40	.....
6,885.58	8,202.80	18,489.50	8,447.50	3,591.25	5,025.13	8,395.06	23,948.51
.....	.....	.....	.....	.....	.....	.....	.....
6,218.36	6,565.03	14,039.59	6,219.99	2,780.52	4,023.75	6,969.24	16,145.27
.....	.....	.....	.....	.....	.....	.....	.....
258.55	860.85	736.02	643.58	11.73	80.22	125.94	1,061.59
.....	.....	.....	.....	.....	.....	.....	84.00
.....	.....	.....	16.05	.....	.....	.....	33.45
.....	.....	.....	.....	.....	.....	.....	.....
57.07	131.43	139.39	60.65	18.36	62.62	62.73	386.81
14.27	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	200.72	.....	.....	.....	400.92
222.97	614.52	2,000.64	73.80	173.33	408.39	550.68	1,368.36
.....	.....	719.18	28.00	.....	.....	.....	343.70
.....	.....	294.68	.....	.....	.....	.....	199.55
353.50	97.37	490.55	203.50	242.86	411.66	243.07	772.78
.....	.....	.....	.....	.....	.....	.....	.....
475.81	337.70	1,223.51	266.24	401.96	251.16	716.64	2,335.59
379.00	419.00	1,103.00	765.00	228.00	322.00	492.00	1,611.00
.....	.....	.....	.....	.....	.....	.....	.....
7,979.53	9,025.90	20,746.56	8,477.53	3,856.76	5,559.80	9,160.30	24,743.02
.....	.....	.....	.....	.....	.....	.....	.....
1,093.95	823.10	2,257.06	30.03	265.51	534.67	765.24	794.51
.....	.....	.....	.....	.....	.....	.....	.....
153	160	408	151	56	138	153	454
52	72	105	57	18	50	49	115
4	4	11	9	1	2	3	13
209	236	524	217	75	190	205	582

# STATEMENT

## Detailed Operating Reports of Electrical Departments of

### GEORGIAN BAY SYSTEM—Continued

Municipality.....	Hanover	Holstein	Huntsville	Kincardine	Kirkfield
Population.....	3,102	P.V.	2,946	2,487	P.V.
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	19,145.73	1,431.91	11,876.98	13,935.63	775.61
Commercial light service.....	6,690.48	608.13	7,075.02	6,721.08	950.76
Commercial power service.....	17,331.20	248.41	13,619.70	5,650.02	205.40
Municipal power.....	292.74		1,126.67	1,380.95	
Street lighting.....	3,488.16	490.00	2,665.80	4,258.34	461.13
Merchandise.....			495.73		
Miscellaneous.....	1,568.41		744.24	42.05	1.56
Total earnings.....	48,516.72	2,778.45	37,604.14	31,988.07	2,394.46
EXPENSES					
Power purchased.....	35,067.35	2,376.90	27,104.98	22,522.96	1,853.67
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	2,075.16	2.80	3,047.03	1,398.60	219.25
Line transformer maintenance.....	28.92		28.95		
Meter maintenance.....	191.55		22.25		
Consumers' premises expenses.....					
Street lighting, operation and maintenance.....	86.73	0.65	244.92	245.40	21.00
Promotion of business.....				127.24	
Billing and collecting.....	1,116.52		390.48	871.31	
General office, salaries and expenses.....	880.85	177.30	1,221.13	622.22	36.39
Undistributed expenses.....	479.05		558.48	547.19	
Truck operation and maintenance.....	194.10		116.84	219.93	
Interest.....	2,645.06	218.97	225.30	2,168.04	277.17
Sinking fund and principal payments on debentures.....	4,983.59	202.64	647.51	2,992.87	309.61
Depreciation.....	3,144.00	105.00	1,040.00	1,978.00	197.00
Other reserves.....					
Total operating costs and fixed charges.....	50,892.88	3,084.26	34,647.87	33,693.76	2,914.09
Net surplus.....			2,956.37		
Net loss.....	2,376.16	305.81		1,705.69	519.63
NUMBER OF CONSUMERS					
Domestic service.....	712	55	565	583	30
Commercial light service.....	119	17	124	113	18
Power service.....	19	1	10	19	1
Total.....	850	73	699	715	49



## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1932

Lucknow 1,067	Markdale 819	Meaford 2,726	Midland 7,802	Mount Forest 1,914	Neustadt 448	Orangeville 2,764	Owen Sound 12,673
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
7,098.99	3,608.51	12,817.08	35,890.02	7,307.96	2,215.42	12,974.32	59,590.65
2,956.21	2,538.76	6,551.13	14,078.91	5,154.42	1,215.97	7,716.99	35,076.30
3,180.32	762.58	3,511.10	54,526.15	3,295.86	87.63	6,869.79	39,308.82
396.73	81.00	748.89	3,041.01	1,205.87	.....	1,301.65	.....
1,573.00	699.85	3,474.04	6,219.17	2,370.00	975.00	4,129.00	10,976.59
.....	.....	.....	.....	.....	.....	71.31	419.47
170.82	244.49	506.59	1,721.29	503.44	.....	156.05	1,105.42
15,376.07	7,935.19	27,608.83	115,476.55	19,837.55	4,494.02	33,219.11	146,477.25
11,567.80	5,962.09	18,372.73	101,690.53	17,747.06	3,652.45	25,657.01	117,498.91
.....	.....	.....	2,164.88	.....	.....	.....	4,369.78
.....	.....	.....	1,243.21	.....	.....	.....	.....
251.51	182.56	1,097.89	3,552.27	1,281.28	55.71	1,106.91	5,258.83
.....	.....	148.24	575.56	.....	.....	.....	1,112.81
.....	.....	21.75	1,902.91	.....	.....	107.20	1,844.30
.....	.....	.....	.....	.....	.....	.....	.....
48.95	59.81	144.43	935.55	362.44	56.43	511.96	2,827.79
.....	.....	.....	470.02	.....	.....	.....	.....
.....	.....	683.96	2,348.36	.....	.....	1,421.03	4,965.47
966.42	524.45	2,204.62	2,245.66	1,154.08	317.94	18.85	5,446.32
.....	.....	679.58	2,465.83	.....	.....	183.01	3,821.58
.....	.....	98.08	460.32	27.51	.....	.....	900.53
754.00	371.74	1,613.41	3,115.76	735.95	922.08	696.68	1,243.98
910.59	289.19	.....	4,936.62	602.66	936.93	2,211.23	671.74
697.00	624.00	1,280.00	9,254.00	1,261.00	542.00	1,806.00	6,620.00
.....	.....	.....	.....	.....	.....	.....	.....
15,196.27	8,013.84	26,344.69	137,361.48	23,171.98	6,483.54	33,719.88	156,582.04
179.80	.....	1,264.14	.....	.....	.....	.....	.....
.....	78.65	.....	21,884.93	3,334.43	1,989.52	500.77	10,104.79
.....	.....	.....	.....	.....	.....	.....	.....
271	187	641	1,540	434	96	660	3,131
87	79	135	225	141	29	159	575
6	10	15	58	11	2	27	118
364	276	791	1,823	586	127	846	3,824

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY  
SYSTEM—Continued

Municipality.....	Paisley	Penetang- uishene	Port Elgin	Port McNicoll	Port Perry
Population.....	693	4,046	1,300	875	1,130
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	3,872.44	10,694.19	7,949.99	3,622.82	6,690.04
Commercial light service.....	2,601.90	4,435.64	4,432.53	736.93	2,941.82
Commercial power service.....	1,185.39	9,553.73	3,471.03		2,796.19
Municipal power.....		1,774.79	911.17		366.33
Street lighting.....	1,408.00	2,216.50	2,029.41	517.00	1,403.00
Merchandise.....					
Miscellaneous.....	154.91	94.09	114.70		605.82
Total earnings.....	9,222.64	28,768.94	18,908.83	4,876.75	14,803.20
EXPENSES					
Power purchased.....	7,192.75	22,106.69	8,741.32	4,076.25	10,134.04
Substation operation.....		642.42			
Substation maintenance.....					
Distribution system, operation and maintenance.....	130.51	2,279.99	821.44	213.95	549.30
Line transformer maintenance.....		32.54	13.52		
Meter maintenance.....		110.40	21.87		
Consumers' premises expenses.....					
Street lighting, operation and main- tenance.....	107.78	396.41	247.78	83.26	193.08
Promotion of business.....		14.68			
Billing and collecting.....		898.95	648.38		
General office, salaries and expenses.....	461.29	775.94	207.10	289.00	903.89
Undistributed expenses.....		264.01	68.12		
Truck operation and maintenance.....		148.93	265.27		155.61
Interest.....	634.65	1,092.76	2,135.88	217.45	1,018.58
Sinking fund and principal payments on debentures.....	704.22	1,887.92	1,333.71	456.49	705.19
Depreciation.....	486.00	2,752.00	773.00	370.00	799.00
Other reserves.....					
Total operating costs and fixed charges.....	9,717.20	33,403.64	15,277.39	5,706.40	14,458.69
Net surplus.....			3,631.44		344.51
Net loss.....	494.56	4,634.70		829.65	
NUMBER OF CONSUMERS					
Domestic service.....	177	560	365	184	296
Commercial light service.....	51	99	84	28	85
Power service.....	4	26	7		9
Total.....	232	685	456	212	390

## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1932

Priceville P.V.	Ripley 450	Rosseau 291	Shelburne 1,129	South- ampton 1,660	Stayner 951	Sunder- land P.V.	Tara 454
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
653.82	3,309.93	2,665.97	5,254.42	8,528.84	4,279.66	2,137.72	2,859.74
213.33	2,031.74	934.28	3,571.98	4,018.04	2,859.98	1,874.14	1,556.42
			1,533.21	3,419.23	2,658.11	57.26	796.69
			621.40	1,354.06			
560.00	1,266.00	1,240.00	960.00	2,325.20	1,022.00	632.75	1,206.00
10.96	51.92	232.04	255.81	165.39	343.76	51.38	17.33
1,438.11	6,659.59	5,072.29	12,196.82	19,810.76	11,163.51	4,753.25	6,436.18
1,308.12	4,561.25	3,729.68	9,176.46	8,798.63	8,690.50	3,817.05	3,800.99
8.50	92.30	254.07	503.11	1,160.04	563.59	194.09	325.30
		48.82		30.57			
				6.05			
17.50	57.36	6.48	113.03	59.84	153.36	93.63	88.70
		120.05	483.03	715.93			
50.98	508.89	14.93	83.87	291.06	546.12	325.83	476.13
		20.25		83.73			
				203.35			
413.97	715.25	585.95	395.47	1,601.00	200.69	208.39	403.39
309.63	360.17		1,257.61	1,047.00	1,024.09	301.53	893.65
169.00	413.00	204.47	902.00	623.00	759.00	265.00	497.00
2,277.70	6,708.22	4,984.70	12,914.58	14,620.20	11,937.35	5,205.52	6,485.16
		87.59		5,190.56			
839.59	48.63		717.76		773.84	452.27	48.98
32	122	51	278	384	235	112	132
9	48	21	86	78	75	44	40
			10	12	12	1	4
41	170	72	374	474	322	157	176



## STATEMENT

## Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY  
SYSTEM—Concluded

Municipality.....	Teeswater	Thornton	Tottenham	Uxbridge	Victoria Harbor
Population.....	832	P.V.	575	1,591	1,160
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	4,646.00	1,246.12	3,022.89	8,037.95	3,065.16
Commercial light service.....	2,224.82	598.79	2,350.50	3,560.66	818.98
Commercial power service.....	953.46	334.83	130.35	917.33	49.41
Municipal power.....	180.00		154.63		120.31
Street lighting.....	1,402.00	880.00	1,225.08	1,556.19	702.00
Merchandise.....					
Miscellaneous.....	167.16	2.94	10.55	411.06	
Total earnings.....	9,573.44	3,062.68	6,894.00	14,483.19	4,755.86
EXPENSES					
Power purchased.....	6,318.14	1,385.13	5,967.24	11,344.34	3,246.81
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	200.12	54.43	303.20	559.66	151.26
Line transformer maintenance.....					
Meter maintenance.....					
Consumers' premises expenses.....					
Street lighting, operation and maintenance.....	45.99	23.25	61.20	192.13	124.41
Promotion of business.....					
Billing and collecting.....					
General office, salaries and expenses.....	590.32	107.25	200.05	807.81	369.81
Undistributed expenses.....					
Truck operation and maintenance.....					
Interest.....	1,063.58	367.46	438.77	825.87	113.21
Sinking fund and principal payments on debentures.....	1,063.66	400.97	364.62	918.56	439.06
Depreciation.....	670.00	296.00	395.00	634.00	370.00
Other reserves.....					
Total operating costs and fixed charges.....	9,951.81	2,634.49	7,730.08	15,282.37	4,814.56
Net surplus.....		428.19			
Net loss.....	378.37		836.08	799.18	58.70
NUMBER OF CONSUMERS					
Domestic service.....	213	55	117	348	168
Commercial light service.....	57	14	51	95	27
Power service.....	7	3	4	11	2
Total.....	277	72	172	454	197

“B”—Continued

Hydro Municipalities for Year Ended December 31, 1932

Walkerton	Waubau- shene P.V.	Warton	Windermere	Wingham	Woodville	GEORGIAN BAY SYSTEM SUMMARY
2,310		1,881	124	2,201	417	
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
14,606.24	1,982.88	9,921.57	2,195.19	12,675.78	2,225.05	474,437.86
8,291.19	546.05	6,921.84	981.67	7,142.32	1,172.47	254,637.58
4,114.82	482.67	1,938.29		8,355.92	763.91	276,901.20
658.34	90.86	2,040.58		362.46		25,016.34
2,159.42	360.00	2,550.00	455.00	3,410.34	503.00	103,452.22
177.54				213.68		2,020.14
8.62	18.75		74.49	490.54	303.30	17,156.97
30,016.17	3,481.21	23,372.28	3,706.35	32,651.04	4,967.73	1,153,622.31
16,315.30	1,879.58	14,843.91	2,388.13	15,638.36	3,369.11	861,469.18
				1,604.59		8,781.67
						1,839.00
2,024.41	146.17	538.28	175.91	1,802.42	346.92	47,371.08
6.27		5.17				2,324.89
138.86		92.10		295.69		5,634.14
213.71	75.63	190.28	28.46	404.87	69.06	12,717.33
						647.27
1,178.48		891.94	175.81	579.39		25,526.59
961.64	326.56	341.85	26.27	873.07	328.51	40,168.02
148.67		91.08	36.75	357.56		12,771.61
345.36		112.00		71.47		4,874.84
3,168.03	64.66	2,127.11	609.02	2,665.33	189.49	50,449.84
1,905.28	241.71			3,705.06	219.26	57,236.15
1,130.00	249.00	858.00	266.00	2,677.00	218.00	68,893.47
27,536.01	2,983.31	20,091.72	3,706.35	30,674.81	4,740.35	1,200,705.08
2,480.16	497.90	3,280.56		1,976.23	227.38	
						47,082.77
535	123	351	42	523	107	21,530
121	22	106	10	154	31	5,059
16	4	11		25	3	700
672	149	468	52	702	141	27,289

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO  
SYSTEM

Municipality.....	Alexandria	Apple Hill	Athens	Bath*	Belleville
Population.....	2,400	P.V.	666	343	13,914
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	7,463.80	968.87	4,271.94	1,407.01	77,863.76
Commercial light service.....	4,011.46	842.28	1,902.97	992.59	49,324.85
Commercial power service.....	3,410.53	275.06	1,053.84		35,793.03
Municipal power.....	1,654.40				9,875.29
Street lighting.....	2,640.00	503.50	1,399.00	765.56	12,399.14
Merchandise.....					930.00
Miscellaneous.....	378.98	2.16	29.00		339.16
Total earnings.....	19,559.17	2,591.87	8,656.75	3,165.16	186,525.23
EXPENSES					
Power purchased.....	12,315.07	1,403.00	5,172.92	2,321.08	125,593.03
Substation operation.....					
Substation maintenance.....					
Distribution system, operation and maintenance.....	1,216.05	39.23	80.17	43.35	3,955.39
Line transformer maintenance.....					761.65
Meter maintenance.....					2,216.90
Consumers' premises expenses.....					739.27
Street lighting, operation and maintenance.....	315.22	45.50	117.46	10.44	1,406.57
Promotion of business.....					425.08
Billing and collecting.....					3,456.11
General office, salaries and expenses.....	1,535.81	236.60	198.00	103.53	7,924.79
Undistributed expenses.....					2,877.76
Truck operation and maintenance.....					33.57
Interest.....	1,528.85	248.42	725.99	541.08	2,067.38
Sinking fund and principal payments on debentures.....	2,356.99	286.75	471.48		6,000.00
Depreciation.....	1,260.00	155.00	420.00	158.00	4,656.00
Other reserves.....					
Total operating costs and fixed charges.....	20,527.99	2,414.50	7,186.02	3,177.48	162,113.50
Net surplus.....		177.37	1,470.73		24,411.73
Net loss.....	968.82			12.32	
NUMBER OF CONSUMERS					
Domestic service.....	290	41	138	31	3,474
Commercial light service.....	80	18	49	16	502
Power service.....	15	1	1		90
Total.....	385	60	188	47	4,066

\*13 months' operation.



## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1932

Bloomfield 637	Bowman- ville* 3,648	Brighton 1,431	Brockville 9,485	Cardinal 1,304	Carleton Place 4,269	Chester- ville 912
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
2,783.26	36,429.78	10,079.43	43,776.79	5,871.96	19,766.86	5,467.65
842.75	12,760.17	4,666.98	24,890.99	1,844.85	9,623.77	2,348.57
877.96	49,653.05	2,969.33	34,577.51	559.14	24,281.86	2,314.30
720.00	4,732.00	1,644.00	6,058.05	1,158.00	2,066.14	1,032.00
8.83	706.16		8,756.00	3.96	4,350.04	136.23
5,232.80	104,281.16	19,359.74	7,304.60		832.04	558.05
			125,363.94	9,437.91	60,920.71	11,856.80
4,482.30	71,461.71	10,419.76	72,422.04	4,664.19	34,991.02	8,546.06
			5,325.58			
			547.75		108.61	
141.81	2,758.21	2,364.57	1,560.01	550.91	2,118.48	983.02
	281.75	264.52	81.24		21.34	
	1,064.08	302.52	1,913.93	14.40	663.16	
	25.50		296.00			
	483.15	192.01	1,735.58	185.97	491.28	146.66
	26.69	20.04	178.35			
	1,966.25	916.59	1,733.71		1,585.10	
83.54	4,077.96	1,665.62	4,851.16	548.82	3,442.13	923.82
	1,687.24	555.26	2,367.97		294.37	
		259.29	748.56		891.17	
475.20	3,987.97	1,115.01	4,037.63	729.67	2,606.97	141.06
380.96	2,204.58	813.14	8,071.04	476.32	2,273.31	180.95
469.00	1,768.50	537.00	7,770.00	295.00	1,877.00	573.00
			5,000.00			
6,032.81	91,793.59	19,425.33	118,640.55	7,465.28	51,363.94	11,494.57
	12,487.57		6,723.39	1,972.63	9,556.77	362.23
800.01		65.59				
150	1,034	403	2,508	275	951	228
26	174	104	438	52	181	62
4	34	8	67	2	20	3
180	1,242	515	3,013	329	1,152	293

\*14 months' operation.

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO  
SYSTEM—Continued

Municipality.....	Cobourg	Deseronto	Finch	Hastings
Population.....	5,478	1,356	358	653
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	27,555.43	7,061.64	2,066.11	4,723.55
Commercial light service.....	19,527.99	2,756.63	1,789.11	1,938.40
Commercial power service.....	23,937.45	1,678.82	708.99	785.97
Municipal power.....	6,179.74	894.00		
Street lighting.....	5,572.26	2,015.94	570.00	1,847.82
Merchandise.....	22.35	45.70		
Miscellaneous.....	812.72	193.99	39.45	72.26
Total earnings.....	83,607.94	14,646.72	5,173.66	9,368.00
EXPENSES				
Power purchased.....	51,104.08	7,553.07	2,266.61	3,554.13
Substation operation.....				
Substation maintenance.....				
Distribution system, operation and maintenance.....	1,908.69	1,018.34	175.47	169.90
Line transformer maintenance.....	361.16			
Meter maintenance.....	1,062.09	97.45		29.46
Consumers' premises expenses.....	212.74			
Street lighting, operation and maintenance.....	758.63	332.67	43.83	115.58
Promotion of business.....	83.70			
Billing and collecting.....	1,638.19	275.66		
General office, salaries and expenses.....	5,041.40	640.43	241.78	488.56
Undistributed expenses.....	617.06	129.44		
Truck operation and maintenance.....	9.91			
Interest.....	5,034.70	550.88	370.11	1,184.34
Sinking fund and principal payments on debentures.....	3,291.15	465.76	240.23	602.28
Depreciation.....	2,091.00	367.00	241.00	402.60
Other reserves.....				
Total operating costs and fixed charges.....	73,214.50	11,430.70	3,579.03	6,546.85
Net surplus.....	10,393.44	3,216.02	1,594.63	2,821.15
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	1,150	295	76	157
Commercial light service.....	249	68	33	48
Power service.....	41	12	1	5
Total.....	1,440	375	110	210

## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1932

Havelock 1,082	Kemptville 1,227	Kingston 22,534	Lakefield 1,458	Lanark 573	Lancaster 590	Lindsay 7,174
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
6,539.86	6,626.69	103,043.73	6,461.02	2,492.57	2,051.56	37,248.19
2,116.63	4,175.05	72,814.30	3,905.32	1,157.53	1,743.75	23,206.87
5,151.18	4,744.04	84,950.71	2,247.44	17.01	.....	24,074.39
.....	.....	11,210.43	.....	.....	.....	2,632.42
1,508.00	1,830.00	24,969.33	1,810.25	592.00	1,496.50	8,273.75
.....	117.64	.....	.....	.....	.....	247.62
358.09	1,017.69	4,081.45	724.67	104.59	.....	2,330.08
15,673.76	18,511.11	301,069.95	15,148.70	4,363.70	5,291.81	98,013.32
.....	.....	.....	.....	.....	.....	.....
9,922.03	10,180.78	127,197.00	10,468.95	2,944.72	2,838.68	67,688.26
.....	.....	4,965.80	.....	.....	.....	.....
.....	.....	3,622.60	.....	.....	.....	.....
758.13	2,109.47	18,890.76	680.58	130.68	100.07	3,884.62
.....	.....	1,749.47	.....	.....	.....	473.43
.....	.....	5,222.60	143.50	.....	.....	1,340.81
.....	.....	2,018.00	.....	.....	.....	476.97
161.43	220.83	3,507.31	69.52	38.06	33.05	1,118.93
.....	.....	208.00	.....	.....	.....	.....
.....	.....	8,010.68	706.86	.....	.....	2,265.71
389.30	1,330.84	9,659.91	549.85	318.27	319.02	6,495.68
.....	.....	16,478.79	146.53	.....	.....	1,507.52
194.72	309.36	3,346.43	.....	.....	.....	457.43
1,193.29	1,196.70	9,910.57	1,790.00	260.20	454.89	5,570.53
1,675.08	600.28	11,605.22	775.36	438.15	670.86	4,551.25
812.00	853.00	18,125.00	1,040.00	240.00	266.00	3,278.00
.....	.....	23,286.00	.....	.....	.....	.....
15,105.98	16,801.26	267,804.14	16,371.15	4,370.08	4,682.57	99,109.14
567.78	1,709.85	33,265.81	.....	.....	609.24	.....
.....	.....	.....	1,222.45	6.38	.....	1,095.82
.....	.....	.....	.....	.....	.....	.....
279	302	5,623	301	136	77	1,844
62	80	886	71	36	40	333
3	6	145	9	.....	.....	76
344	388	6,654	381	172	117	2,253



## STATEMENT

## Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO  
SYSTEM—Continued

Municipality.....	Madoc	Marmora	Martintown	Maxville
Population.....	1,071	973	P.V.	747
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	4,780.70	3,602.77	810.16	3,144.26
Commercial light service.....	3,301.76	1,633.15	978.54	2,212.26
Commercial power service.....	1,170.79	162.18		160.41
Municipal power.....				
Street lighting.....	1,788.00	1,450.00	300.00	1,430.04
Merchandise.....				
Miscellaneous.....	68.66	181.19	90.61	23.36
Total earnings.....	11,109.91	7,029.29	2,179.31	6,970.33
EXPENSES				
Power purchased.....	6,831.77	4,235.89	1,190.04	4,228.10
Substation operation.....				
Substation maintenance.....				
Distribution system, operation and maintenance.....	640.87	42.27	21.85	318.91
Line transformer maintenance.....				
Meter maintenance.....	85.32			
Consumers' premises expenses.....				
Street lighting, operation and maintenance.....	176.39	11.25	46.35	90.96
Promotion of business.....				
Billing and collecting.....				
General office, salaries and expenses.....	806.36	493.55	119.40	374.04
Undistributed expenses.....				
Truck operation and maintenance.....				
Interest.....	98.72	681.39	214.47	516.77
Sinking fund and principal payments on debentures.....	426.17	676.76	309.63	826.93
Depreciation.....	334.00	512.00	129.00	467.00
Other reserves.....				
Total operating costs and fixed charges.....	9,399.60	6,653.11	2,030.74	6,822.71
Net surplus.....	1,710.31	376.18	148.57	147.62
Net loss.....				
NUMBER OF CONSUMERS				
Domestic service.....	242	197	33	129
Commercial light service.....	86	46	21	39
Power service.....	6	2		1
Total.....	334	245	54	169

## "B"—Continued

## Hydro Municipalities for Year Ended December 31, 1932

Napanee	Norwood	Omemeë	Oshawa	Ottawa	Perth	Peterborough
2,981	742	457	23,687	127,332	3,915	22,798
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
27,638.04	5,040.45	2,245.18	149,027.59	415,204.32	23,050.26	117,000.80
14,849.83	2,725.70	1,433.52	56,371.52	161,026.05	14,999.87	63,006.07
11,161.52	888.79	476.78	139,612.05	62,257.17	13,998.72	74,388.43
849.05			6,024.90	32,786.59	2,067.02	5,827.30
4,337.83	1,578.00	924.00	10,524.15	72,349.35	2,052.25	19,508.00
					1,750.84	
989.95	242.73		5,303.91	584.71	1,556.65	2,779.34
59,826.22	10,475.67	5,079.48	366,864.12	744,208.19	59,475.61	282,509.94
34,309.24	4,740.64	2,487.74	311,735.36	363,710.98	33,758.73	191,552.53
				21,543.52	360.00	6,462.24
				60.56	105.00	353.13
3,269.87	504.66	457.83	6,474.30	25,495.08	1,758.53	7,446.13
242.91			2,146.29	1,471.17	367.99	615.77
1,178.01			4,366.54	10,120.58	697.68	4,657.92
52.02			6.88	3,521.26		510.00
394.25	131.28	60.24	4,068.54	28,073.32	708.99	3,361.77
			91.13	10,758.57		
1,378.75			10,445.01	40,829.21	1,404.39	6,822.39
3,931.94	467.61	260.91	7,880.60	21,701.89	2,541.91	7,161.34
2,338.86			5,245.27	24,623.45	857.02	6,923.54
	196.14		2,315.17	2,398.34	833.77	2,439.23
2,011.36	1,732.05	292.60	12,417.33	45,761.55	3,053.52	27,444.61
2,276.80	968.12	717.26	10,561.72	20,880.06	1,716.17	14,263.54
1,428.00	991.00	532.00	8,746.00	67,566.00	3,067.00	14,871.00
				16,000.00		
52,812.01	9,731.50	4,808.58	386,500.14	704,515.54	51,230.70	294,885.14
7,014.21	744.17	270.90		39,692.65	8,244.91	
			19,636.02			12,375.20
754	217	126	5,820	12,180	911	5,259
189	68	48	517	1,373	188	780
35	2	6	100	220	25	156
978	287	180	6,437	13,773	1,124	6,195

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO  
SYSTEM—Continued

Municipality.....	Picton	Port Hope	Prescott	Richmond	Russell
Population.....	3,140	4,601	3,078	376	P.V.
EARNINGS					
Domestic service.....	21,279.06	27,820.09	16,527.43	1,603.27	2,674.04
Commercial light service.....	11,866.75	11,786.88	8,973.05	1,592.47	1,447.16
Commercial power service.....	7,569.77	20,375.47	3,672.70		110.19
Municipal power.....	1,859.73	2,010.15	1,485.61		
Street lighting.....	4,364.04	4,608.00	3,475.00	555.84	1,012.00
Merchandise.....					
Miscellaneous.....	712.83	243.70	650.73	5.64	31.59
Total earnings.....	47,652.18	66,844.29	34,784.52	3,757.22	5,274.98
EXPENSES					
Power purchased.....	35,982.23	43,587.36	23,844.58	2,430.82	2,909.64
Substation operation.....			1,197.92		
Substation maintenance.....					
Distribution system, operation and maintenance.....	965.24	2,279.34	2,392.32	90.96	93.23
Line transformer maintenance.....	71.76	49.97			
Meter maintenance.....	636.26	1,372.42	150.48		
Consumers' premises expenses.....					
Street lighting, operation and maintenance.....	1,167.03	578.55	263.45	21.50	198.24
Promotion of business.....	86.62				
Billing and collecting.....	1,071.83	1,733.09	1,106.93		
General office, salaries and expenses.....	3,564.67	4,004.58	2,057.28	182.81	207.75
Undistributed expenses.....	422.47	1,271.86	462.73		
Truck operation and maintenance.....	190.58	307.82			
Interest.....		1,718.62	8.12	358.89	441.34
Sinking fund and principal payments on debentures.....		2,691.56		210.42	395.45
Depreciation.....	1,850.00	1,732.00	2,531.00	180.00	254.00
Other reserves.....					
Total operating costs and fixed charges.....	46,008.69	61,327.17	34,014.81	3,475.40	4,499.65
Net surplus.....	1,643.49	5,517.12	769.71	281.82	775.33
Net loss.....					
NUMBER OF CONSUMERS					
Domestic service.....	992	1,207	645	50	106
Commercial light service.....	198	212	160	25	33
Power service.....	42	45	21		
Total.....	1,232	1,464	826	75	139



“B”—Continued

Hydro Municipalities for Year Ended December 31, 1932

Smiths Falls	Stirling	Trenton	Tweed	Warkworth	Wellington	Westport*
7,486	937	6,288	1,247	P.V.	904	675
42,842.87	5,486.74	30,633.23	6,741.31	2,165.50	4,708.55	3,267.59
16,416.27	3,780.76	19,642.80	5,054.98	1,603.69	2,125.74	3,150.56
19,279.30	2,071.33	62,605.97	3,483.44	.....	2,316.67	.....
532.04	305.07	1,878.63	201.93	.....	.....	.....
7,862.04	1,389.67	8,430.59	1,888.75	648.00	1,118.04	2,062.16
.....	.....	.....	162.33	.....	.....	.....
2,613.01	415.48	1,476.75	18.24	73.61	.....	46.17
89,545.53	13,449.05	124,667.97	17,550.98	4,490.80	10,269.00	8,526.48
44,198.63	8,058.92	77,464.34	10,932.11	3,303.23	8,456.57	5,154.08
1,971.00	62.74	.....	.....	.....	.....	.....
78.69	.....	1,014.59	.....	.....	.....	.....
3,381.37	1,087.58	3,915.41	1,137.62	85.52	844.60	197.77
84.16	4.85	394.60	14.16	34.74	18.85	1.00
918.66	63.70	1,657.98	237.42	.....	35.23	1.40
.....	.....	122.85	.....	.....	.....	.....
918.65	231.55	608.43	388.25	57.27	188.28	93.77
29.42	90.88	112.71	.....	.....	.....	.....
3,343.59	.....	2,507.94	414.87	.....	.....	.....
4,156.38	1,766.17	5,699.89	1,131.49	184.99	522.03	422.97
1,195.30	.....	1,865.53	247.62	.....	61.08	17.00
655.60	311.62	1,050.28	.....	.....	.....	.....
5,510.19	.....	7,837.50	788.47	593.77	557.03	825.00
11,630.90	.....	5,123.31	617.98	209.21	600.95	430.19
5,479.00	953.00	3,209.00	418.00	190.00	626.00	199.00
83,551.54	12,631.01	112,584.36	16,327.99	4,658.73	11,910.62	7,342.18
5,993.99	818.04	12,083.61	1,222.99	.....	.....	1,184.30
.....	.....	.....	.....	167.93	1,641.62	.....
1,679	268	1,191	270	97	282	91
263	83	228	91	43	62	47
45	10	49	12	.....	6	.....
1,987	361	1,468	373	140	350	138

\*12½ months operation.

## STATEMENT

## Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO  
SYSTEM—Concluded

Municipality.....	Whitby	Williamsburg	Winchester	EASTERN ONTARIO SYSTEM SUMMARY
Population.....	5,425	P.V.	980	
EARNINGS	\$ c.	\$ c.	\$ c.	\$ c.
Domestic service.....	19,451.10	2,567.12	6,019.53	1,367,353.42
Commercial light service.....	9,790.33	2,548.08	3,342.99	674,844.59
Commercial power service.....	14,250.03	212.04	1,616.60	745,901.96
Municipal power.....	2,273.60			98,672.09
Street lighting.....	3,286.95	192.00	1,062.00	248,781.79
Merchandise.....				3,412.71
Miscellaneous.....	1,247.59	127.89	407.42	39,789.69
Total earnings.....	50,299.60	5,647.13	12,448.54	3,178,756.25
EXPENSES				
Power purchased.....	35,687.89	3,095.61	8,813.33	1,922,210.85
Substation operation.....				41,888.80
Substation maintenance.....	173.70			6,064.63
Distribution system, operation and maintenance.....	3,301.98	404.20	542.29	112,787.64
Line transformer maintenance.....	355.30			9,868.08
Meter maintenance.....	116.99			40,367.49
Consumers' premises expenses.....				7,981.49
Street lighting, operation and main- tenance.....	702.15	61.98	211.15	54,343.27
Promotion of business.....			47.83	12,159.02
Billing and collecting.....	1,517.76			95,130.62
General office, salaries and expenses.....	1,426.60	218.31	868.20	123,220.49
Undistributed expenses.....	439.77			72,633.44
Truck operation and maintenance.....	286.00			17,234.99
Interest.....	2,328.32	30.05	411.14	161,354.25
Sinking fund and principal payments on debentures.....	3,313.88	190.62	362.56	127,831.33
Depreciation.....	2,725.26	148.00	580.00	167,371.36
Other reserves.....				44,286.00
Total operating costs and fixed charges.....	52,375.60	4,148.77	11,836.50	3,016,733.75
Net surplus.....		1,498.36	612.04	162,022.50
Net loss.....	2,076.00			
NUMBER OF CONSUMERS				
Domestic service.....	825	75	274	53,683
Commercial light service.....	152	54	66	8,680
Power service.....	16	1	2	1,345
Total.....	993	130	342	63,708

“B”—Concluded

Hydro Municipalities for Year Ended December 31, 1932

THUNDER BAY  
SYSTEM

Fort William 24,470	Nipigon	Port Arthur 19,430	THUNDER BAY SYSTEM SUMMARY	ALL SYSTEMS GRAND SUMMARY
\$ c.	\$ c.	\$ c.	\$ c.	\$ c.
205,660.88	2,508.73	108,207.21	316,376.82	11,447,307.85
63,991.03	1,913.03	54,652.69	120,556.75	6,243,794.01
41,949.95	305.51	780,752.69	823,008.15	9,356,693.88
21,813.85	248.08	37,591.52	59,653.45	1,859,585.35
17,556.68	480.00	18,984.96	37,021.64	1,783,972.46
7,762.38		20,369.73	28,132.11	11,069.27
358,734.77	5,455.35	1,020,558.80	1,384,748.92	513,787.30
270,490.78	1,781.36	844,590.18	1,116,862.32	19,109,036.25
6,324.39		20,136.48	26,460.87	503,351.82
2,247.63		1,717.67	3,965.30	300,186.15
13,366.99	368.57	11,669.90	25,405.46	969,750.61
896.00	20.70	646.38	1,563.08	95,485.55
8,496.23	16.21	3,684.36	12,196.80	300,104.85
771.82			771.82	368,208.73
7,283.77	17.28	5,760.77	13,061.82	360,709.76
		2,848.60	2,848.60	266,760.84
10,589.19		10,390.63	20,979.82	818,721.33
5,234.84	566.99	10,493.82	16,295.64	960,558.88
5,958.89		8,032.22	13,991.11	436,692.96
1,945.49		1,390.07	3,335.56	112,059.90
21,128.14	423.78	19,893.02	41,444.94	2,532,940.93
12,241.58	408.76	9,271.56	21,921.90	2,244,367.86
11,628.00	444.00	30,385.50	42,457.50	1,830,261.14
894.58		2,500.00	3,394.58	90,635.08
379,498.31	4,047.65	983,411.16	1,366,957.12	31,299,832.64
	1,407.70	37,147.64	17,791.80	
20,763.54				83,622.52
5,359	139	4,090	9,588	444,679
854	40	746	1,640	73,723
105	2	91	198	12,951
6,318	181	4,927	11,426	531,353



## STATEMENT "C"

Street Lighting Installation in Hydro Municipalities, December 31, 1932, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Acton.....	1,930	{ 124 5 61 1 3	80 c.p. 80 c.p. 100 watt 150 watt 300 watt	s s m m m	9.00 12.00 9.00 12.00 20.00	1,797.00	0.93
Agincourt.....		57	100 watt	m	13.00	737.44	**
Ailsa Craig....	498	{ 57 1	100 watt 200 watt	m m	10.00 18.00	583.85	1.17
Alexandria.....	2,400	{ 95 41	100 watt 200 watt	m m	17.00 25.00	2,640.00	1.10
Alliston.....	1,367	{ 102 13	100 c.p. 100 watt	s m	18.00 18.00	2,070.00	1.51
Alvinston.....	677	{ 84 6	100 watt 200 watt	m m	20.00 29.00	1,854.00	2.73
Amherstburg...	3,112	{ 81 9 23 12	100 c.p. 250 c.p. 200 watt 300 watt	s s m m	15.00 30.00 20.00 30.00	2,305.00	††
Ancaster Twp..		{ 32 49	100 watt 150 watt	m m	12.50 15.00	1,029.78	**
Apple Hill.....		30	100 watt	m	17.00	503.50	**
Arkona.....	397	48	100 watt	m	20.00	960.00	2.42
Arthur.....	993	{ 82 7	100 watt 200 watt	m m	19.00 32.00	1,782.00	1.79
Athens.....	666	{ 40 23	100 watt 200 watt	m m	16.00 33.00	1,399.00	2.10
Aylmer.....	1,998	{ 168 24 1	100 watt 300 watt Traffic Light		10.00 25.00 40.00	2,320.00	1.16
Ayr.....	806	{ 91 3	100 watt 500 watt	m m	10.00 36.00	1,018.00	1.26
Baden.....		65	100 watt	m	8.00	520.00	**
Barrie.....	7,411	{ 463 15 41 23	100 c.p. 100 watt 200 watt 300 watt	s m m m	9.00 17.00 22.00 25.00	5,950.00	0.80
Bath.....	343	21	100 watt	m	34.00	765.56	†
Beachville.....		47	100 watt	m	11.00	517.00	**

\*\*Population not shown in Government statistics.

†13 months' operation.

††Part of cost paid direct in form of debenture charges.

s Series system.

m Multiple system.

## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1932, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Beaverton.....	931	{ 9 95 6	100 watt 100 watt 500 watt	<i>m</i> <i>m</i> <i>m</i>	6.00 8.00 30.00	994.02	1.07
Beeton.....	552	{ 65 14	100 c.p. 100 watt	<i>s</i> <i>m</i>	15.00 15.00	1,185.00	2.15
Belle River....	734	63	100 watt	<i>m</i>	11.00	705.00	0.96
Belleville.....	13,914	{ 540 22 52 103	100 c.p. 400 c.p. 1,000 c.p. 300 watt	<i>s</i> <i>s</i> <i>s</i> <i>m</i>	10.00 30.00 54.00 35.00	12,399.14	0.89
Blenheim.....	1,613	{ 164 3 12 1	150 c.p. 400 c.p. 600 c.p. Traffic Light	<i>s</i> <i>s</i> <i>s</i> <i>m</i>	12.00 28.00 37.00 16.00	2,507.00	††
Bloomfield....	637	60	100 c.p.	<i>s</i>	12.00	720.00	1.13
Blyth.....	610	100	100 watt	<i>m</i>	13.00	1,300.00	2.13
Bolton.....	582	{ 45 23	100 watt 200 watt	<i>m</i> <i>m</i>	12.00 21.00	1,023.00	1.76
Bothwell.....	653	{ 66 21	100 watt 300 watt	<i>m</i> <i>m</i>	11.00 27.00	1,293.00	1.98
Bowmanville...	3,648	{ 170 4 42	80 c.p. 150 watt 300 watt	<i>s</i> <i>m</i> <i>m</i>	14.00 27.00 37.00	4,732.00	†
Bradford.....	964	{ 60 7	80 c.p. 100 watt	<i>s</i> <i>m</i>	18.00 18.00	1,206.00	1.25
Brampton.....	5,012	{ 656 2	100 watt 500 watt	<i>m</i> <i>m</i>	8.00 35.00	5,291.00	1.06
Brantford.....	30,153	{ 149 3,497 10 12 2 20	1,500 c.p. 100 watt 150 watt 200 watt 500 watt 750 watt	<i>s</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	45.00 7.50 8.50 11.00 45.00 46.00	34,369.72	††
Brantford Twp. ....		366	100 watt	<i>m</i>	12.00	4,382.00	**
Brechin.....	Mara Twp. Thorah "	{ 26 2 4	100 watt 100 watt 100 watt	<i>m</i> <i>m</i> <i>m</i>	18.00 18.00 18.00	576.00	***
Bridgeport.....		58	100 watt	<i>m</i>	10.00	575.00	**

\*\*Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Part of cost paid direct in form of debenture charges.

†14 months' operation.

## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1932, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Brigden.....		{ 44	100 watt	<i>m</i>	14.00	1,166.00	**
		{ 22	200 watt	<i>m</i>	25.00		
Brighton.....	1,431	137	100 c.p.	<i>s</i>	12.00	1,644.00	1.15
Brockville.....	9,485	{ 586	100 c.p.	<i>s</i>	11.00	8,756.00	0.92
		{ 15	1-Lt. stds.	<i>m</i>	17.00		
		{ 35	3-Lt. stds.	<i>m</i>	21.00		
		{ 49	5-Lt. stds.	<i>m</i>	24.00		
		{ 6	300 watt	<i>m</i>	24.00		
Brussels.....	726	{ 80	100 watt	<i>m</i>	12.00	1,281.00	1.76
		{ 18	200 watt	<i>m</i>	18.00		
Burford.....		67	100 watt	<i>m</i>	11.00	742.62	**
Burgessville.....		24	100 watt	<i>m</i>	13.00	312.00	**
Caledonia.....	1,400	{ 174	100 watt	<i>m</i>	8.00	1,529.04	1.09
		{ 7	100 watt	<i>m</i>	13.00		
Campbellville.....		19	100 watt	<i>m</i>	24.00	456.00	**
Cannington.....	856	{ 67	100 watt	<i>m</i>	13.00	967.00	1.13
		{ 3	500 watt	<i>m</i>	32.00		
Cardinal.....	1,304	{ 16	100 watt	<i>m</i>	16.00	1,158.00	0.89
		{ 41	200 watt	<i>m</i>	22.00		
Carleton Place.	4,269	{ 83	60 watt	<i>m</i>	12.00	4,350.04	1.02
		{ 102	200 watt	<i>m</i>	18.00		
		{ 67	300 watt	<i>m</i>	23.00		
Cayuga.....	660	77	100 watt	<i>m</i>	18.00	1,386.00	2.10
		{ 714	150 c.p.	<i>s</i>	13.00		
Chatham.....	16,434	{ 36	150 c.p.	<i>s</i>	12.00	18,943.77	††
		{ 32	250 c.p.	<i>s</i>	16.00		
		{ 33	600 c.p.	<i>s</i>	31.00		
		{ 75	600 c.p.	<i>s</i>	30.00		
		{ 134	1,000 c.p.	<i>s</i>	38.00		
		{ 2	250 watt	<i>m</i>	24.00		
Chatsworth....	263	41	100 watt	<i>m</i>	11.00	451.00	1.71
Chesley.....	1,804	114	150 c.p.	<i>s</i>	14.00	1,596.00	0.88
Chester ville....	912	86	100 watt	<i>m</i>	12.00	1,032.00	1.13
Chippawa.....	1,243	91	100 watt	<i>m</i>	12.00	1,092.00	0.88
Clifford.....	515	61	100 watt	<i>m</i>	14.00	854.00	1.66
Clinton.....	1,873	{ 160	150 c.p.	<i>s</i>	11.00	1,986.98	1.06
		{ 11	100 watt	<i>m</i>	11.00		
		{ 1	500 watt	<i>m</i>	55.00		

\*\*Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Part of cost paid direct in form of debenture charges.



## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1932, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
Cobourg.....	5,478	{ 386 4 18	150 c.p. 400 c.p. 500 c.p.	s s s	\$ c. 12.00 23.00 47.50	\$ c. 5,572.26	\$ c. 1.02
Coldwater.....	641	{ 6 47	60 watt 100 watt	m m	9.00 11.00	571.00	0.89
Collingwood...	5,730	422	80 c.p.	s	8.00	3,376.00	0.59
Comber.....		{ 43 12	100 watt 200 watt	m m	12.00 18.00	732.00	**
Cookstown.....		56	150 c.p.	s	17.00	952.00	**
Cottam.....		30	100 watt	m	15.00	450.00	**
Courtright.....	353	43	100 watt	m	18.00	774.00	2.19
Creemore.....	606	59	100 watt	m	10.00	590.16	0.97
Dashwood.....		41	100 watt	m	12.00	492.00	**
Delaware.....		22	100 watt	m	12.00	264.00	**
Deseronto.....	1,356	128	100 watt	m	16.00	2,015.94	1.49
Dorchester.....		59	100 watt	m	11.00	649.00	**
Drayton.....	552	75	100 watt	m	10.00	750.00	1.36
Dresden.....	1,451	{ 130 15	100 c.p. 50 watt	s m	13.00 4.56	1,834.34	1.26
Drumbo.....		39	100 watt	m	13.00	507.00	**
Dublin.....		50	100 watt	m	15.00	750.00	**
Dundalk.....	655	{ 55 20	100 watt 200 watt	m m	12.00 16.00	980.00	1.50
Dundas.....	5,137	{ 305 12 54	100 watt 200 watt 500 watt	m m m	12.00 16.00 46.00	6,115.93	1.19
Dunnville.....	3,506	{ 246 27	150 c.p. 1,000 c.p.	s s	11.00 45.00	3,943.72	1.12
Durham.....	1,779	{ 105 6	150 c.p. 400 c.p.	s s	16.00 24.00	1,824.00	1.03
Dutton.....	785	110	100 watt	m	9.00	973.50	1.24
East Windsor..	16,081	{ 338 194	100 watt 200 watt	m m	8.00 14.00	8,419.92	††

\*\*Population not shown in Government statistics. s Series system. m Multiple system.  
††Part of cost paid direct in form of debenture charges.

## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1932, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
East York Twp. ....		{ 1 933 4 268 15	60 watt 100 watt 200 watt 300 watt 500 watt	<i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	7.80 13.00 19.50 26.00 29.00	19,071.97	**
Elmira.....	2,761	{ 190 8 1	100 watt 200 watt 500 watt	<i>m</i> <i>m</i> <i>m</i>	9.00 12.00 28.00	1,840.00	0.67
Elmvale.....		60	100 watt	<i>m</i>	11.00	660.00	**
Elmwood.....		23	100 watt	<i>m</i>	21.00	483.00	**
Elora.....	1,317	{ 93 15	100 watt 200 watt	<i>m</i> <i>m</i>	16.00 22.00	1,818.00	1.38
Embros.....	437	56	100 watt	<i>m</i>	12.00	658.00	1.51
Erieau.....	260	20	100 watt	<i>m</i>	18.00	360.00	1.38
Essex.....	1,888	{ 119 29 4 61 1	60 watt 100 watt 200 watt 300 watt 500 watt	<i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	11.00 11.00 22.00 24.00 30.00	3,215.49	1.70
Etobicoke Twp. ....		{ 963 22	100 watt 100 watt	<i>m</i> <i>m</i>	13.00 17.00	12,958.52	**
Exeter.....	1,622	{ 165 23	100 watt 200 watt	<i>m</i> <i>m</i>	9.50 18.00	1,981.56	1.22
Fergus.....	2,585	{ 140 31	100 watt 150 watt	<i>m</i> <i>m</i>	16.00 18.50	2,718.41	1.05
Finch.....	358	32	100 watt	<i>m</i>	18.00	570.00	1.59
Flesherton.....	462	{ 2 54 1	60 watt 100 watt 300 watt	<i>m</i> <i>m</i> <i>m</i>	6.00 10.00 25.00	574.00	1.24
Fonthill.....	833	71	100 watt	<i>m</i>	15.00	1,063.75	1.28
Forest.....	1,425	{ 131 123	60 watt 100 watt Station Platform	<i>m</i> <i>m</i> —	7.00 11.00 51.00	2,321.00	1.63
Fort William...	24,470	{ 578 2 13 74 215 48	100 c.p. 250 c.p. 300 c.p. 600 c.p. 1,000 c.p. Arcs	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> —	8.00 18.00 23.00 28.00 38.00 38.00	17,556.68	0.72

\*\*Population not shown in Government statistics. *s* Series system. *m* Multiple system.

## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1932, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				\$ c.	\$ c.	\$ c.
Galt.....	13,960	{ 934 316 100 152 74	{ 100 c.p. 100 watt 200 watt 300 watt 500 watt	{ s m m m m 9.00 12.00 20.00 35.00 40.00	{ 22,414.88	{ 1.61
Georgetown....	2,187	{ 172 16 1	{ 100 watt 100 watt 300 watt	{ m m m 11.00 13.00 19.00	{ 2,115.33	{ †
Glencoe.....	767	{ 111 19	{ 100 watt 200 watt	{ m m 14.00 20.00	{ 1,934.00	{ 2.52
Goderich.....	4,324	{ 325 8 8 16	{ 100 c.p. 100 watt 200 watt 3-Lt. stds.	{ s m m m 9.00 15.00 25.00 35.00	{ 3,791.50	{ 0.88
Grand Valley..	570	52	100 watt	m 16.00	832.00	1.46
Granton.....		37	100 watt	w 10.00	370.00	**
Gravenhurst...	1,896	{ 135 7 30 16	{ 80 watt 100 watt 100 watt 300 watt	{ s s m m 10.00 11.00 10.00 35.00	{ 2,064.07	{ 1.08
Guelph.....	21,201	{ 12 6 1,341 176 30 9 35 4 18 1	{ 50 watt 60 watt 100 watt 200 watt 300 watt 500 watt 500 watt, 220v 75 watt, 220 v 1,000 watt, 220v Airport Beacon	{ m m m m m m m m m m 4.00 4.00 10.00 12.50 18.75 25.00 34.00 43.00 46.50 60.00	{ 20,199.01	{ 0.95
Hagersville....	1,285	{ 121 14	{ 100 watt 300 watt	{ m m 12.00 20.00	{ 1,732.00	{ 1.35
Hamilton.....	150,065	{ 10 96 8,224 1,167 8 28 92 5 480 595 65 3 2	{ 40 watt 50 watt 100 watt 200 watt 300 watt 300 watt 300 watt 300 watt 500 watt 500 watt 750 watt Danger Sig. Std. Danger Sig. Std.	{ m m m m m m m m m m m m m m 28.00 70.00 4.50 6.00 7.50 11.00 18.00 26.00 32.00 34.00 32.00 37.00 55.00	{ 118,954.03	{ 0.79

\*\*Population not shown in Government statistics. s Series system. m Multiple system.

†Includes Glen Williams.



STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1932, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Hanover.....	3,102	{ 91	100 c.p.	s	27.00	3,488.16	1.12
		{ 16	250 c.p.	s	32.00		
		{ 5	100 watt	m	27.00		
		{ 12	200 watt	m	32.00		
Harriston.....	1,301	{ 83	150 c.p.	s	11.00	1,265.13	0.97
		{ 4	100 watt	m	11.00		
		{ 29	200 watt	m	11.00		
Harrow.....	907	{ 1	100 watt	m	12.00	1,215.25	1.34
		{ 75	200 watt	m	16.50		
Hastings.....	653	{ 51	100 watt	m	29.00	1,847.82	2.83
		{ 10	200 watt	m	38.00		
		{ 1	200 watt	m	39.00		
Havelock.....	1,082	{ 63	100 c.p.	s	16.00	1,508.00	1.39
		{ 20	250 c.p.	s	25.00		
Hensall.....	745	83	100 watt	m	12.00	996.00	1.34
Hespeler.....	2,711	{ 91	150 c.p.	s	11.00	2,846.58	1.05
		{ 75	250 c.p.	s	16.00		
		{ 12	400 c.p.	s	30.00		
		{ 51	150 watt	m	10.00		
		{ 13	300 watt	m	21.50		
		{ 7	300 watt	m	35.00		
Highgate.....	334	51	100 watt	m	11.00	561.00	1.68
Holstein.....		14	100 watt	m	35.00	490.00	**
Humberstone..	2,419	{ 104	100 watt	m	12.00	1,367.00	0.57
		{ 7	200 watt	m	17.00		
Huntsville.....	2,946	{ 20	100 c.p.	s	14.00	2,665.80	0.90
		{ 32	150 c.p.	s	18.00		
		{ 43	250 c.p.	s	22.00		
		{ 20	50 watt	m	10.00		
		{ 60	75 watt	m	10.00		
Ingersoll.....	5,000	{ 13	100 c.p.	s	5.50	4,841.20	††
		{ 310	100 c.p.	s	11.00		
		{ 2	600 c.p.	s	28.00		
		{ 2	1,000 c.p.	s	25.00		
		{ 26	1,000 c.p.	s	35.00		
		{ 11	300 watt	m	30.00		
Jarvis.....	482	70	100 watt	m	12.00	840.00	1.74
Kemptville....	1,227	{ 90	100 watt	m	20.00	1,830.00	1.49
		{ 1	250 watt Fl. light		30.00		

\*\*Population not shown in Government statistics. s Series system. m Multiple system.  
††Part of cost paid direct in form of debenture charges.

## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1932, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Kincardine. . . . .	2,487	{ 148 20 36 2	150 c.p. 100 watt 200 watt 1,000 watt	<i>s</i> <i>m</i> <i>m</i> <i>m</i>	{ 20.00 15.00 25.00 85.00	4,258.34	1.71
Kingston. . . . .	22,534	{ 86 289 243	100 c.p. 600 c.p. 600 c.p.	<i>s</i> <i>s</i> <i>s</i>	{ 15.00 40.00 52.00	24,969.33	1.11
Kingsville. . . . .	2,245	{ 113 122 25	100 watt 100 watt 150 watt	<i>m</i> <i>m</i> <i>m</i>	{ 12.00 14.00 18.00	3,477.16	††
Kirkfield. . . . .		23	100 watt	<i>m</i>	20.00	461.13	**
Kitchener. . . . .	31,114	{ 47 2,023 85 35 18 402 30 69 77 177	16 c.p. 80 c.p. 100 c.p. 250 c.p. 1,000 c.p. 200 watt 300 watt 300 watt 300 watt 500 watt	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	{ 7.00 9.00 9.00 13.00 25.00 15.00 15.00 17.50 20.00 25.00	33,649.47	††
Lakefield. . . . .	1,458	108	100 watt	<i>m</i>	17.00	1,810.25	1.24
Lambeth. . . . .		{ 36 1	100 watt 200 watt	<i>m</i> <i>m</i>	{ 12.00 21.00	453.00	**
Lanark. . . . .	573	37	100 watt	<i>m</i>	16.00	592.00	1.03
Lancaster. . . . .	590	41	100 watt	<i>m</i>	36.50	1,496.50	2.54
La Salle. . . . .	609	66	100 watt	<i>m</i>	15.00	990.00	1.63
Leamington. . . . .	4,912	{ 21 99 4 192	250 c.p. 400 c.p. 600 c.p. 100 watt	<i>s</i> <i>s</i> <i>s</i> <i>m</i>	{ 17.00 22.00 28.00 15.00	5,891.51	††
Lindsay. . . . .	7,174	{ 428 25 2	100 c.p. 1,000 c.p. 500 watt	<i>s</i> <i>s</i> <i>m</i>	{ 15.00 70.00 70.00	8,273.75	1.15
Listowel. . . . .	2,688	{ 161 118 8 26 3	60 watt 100 watt 200 watt 300 watt 500 watt	<i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	{ 9.00 11.00 25.00 30.00 35.00	3,831.60	1.43

\*\*Population not shown in Government statistics. *s* Series system. *m* Multiple system.  
††Part of cost paid direct in form of debenture charges.

## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1932, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
London.....	71,310	{	8	150 c.p.	<i>s</i> 10.00	54,071.71	††
			1,920	150 c.p.	<i>s</i> 11.00		
			103	400 c.p.	<i>s</i> 18.00		
			301	400 c.p.	<i>s</i> 24.00		
			32	600 c.p.	<i>s</i> 28.00		
			273	600 c.p.	<i>s</i> 30.00		
			2	50 watt	<i>m</i> 5.00		
			75	100 watt	<i>m</i> 10.00		
			12	200 watt	<i>m</i> 9.34		
			47	200 watt	<i>m</i> 14.00		
			43	200 watt	<i>m</i> 18.00		
			488	300 watt	<i>m</i> 18.00		
			36	300 watt	<i>m</i> 20.00		
London Twp.....		{	11	500 watt	<i>m</i> 25.00	832.50	**
			68	500 watt	<i>m</i> 40.00		
Long Branch...	3,537	{	68	100 watt	<i>m</i> 12.00	3,405.30	0.96
			1	200 watt	<i>m</i> 16.50		
Lucan.....	547		267	100 watt	<i>m</i> 13.00	1,065.00	1.95
Lucknow.....	1,067	{	73	100 watt	<i>m</i> 21.00	1,573.00	1.47
			16	200 watt	<i>m</i> 31.00		
Lynden.....			44	100 watt	<i>m</i> 10.00	445.79	**
Madoc.....	1,071	{	342	75 watt	<i>m</i> 5.00	1,788.00	1.67
			7	150 watt	<i>m</i> 6.00		
			3	300 watt	<i>m</i> 12.00		
Markdale.....	819		90	150 c.p.	<i>s</i> 8.00	699.85	0.85
Markham.....	1,001		114	100 watt	<i>m</i> 14.00	1,596.00	1.59
Marmora.....	973	{	37	75 watt	<i>m</i> 15.00	1,450.00	1.49
			35	100 watt	<i>m</i> 17.00		
			15	150 watt	<i>m</i> 20.00		
Martintown.....			15	100 watt	<i>m</i> 20.00	300.00	**
Maxville.....	747		65	100 c.p.	<i>s</i> 22.00	1,430.04	1.91
Meaford.....	2,726	{	180	150 c.p.	<i>s</i> 13.00	3,474.04	1.27
			28	100 watt	<i>m</i> 13.00		
			35	200 watt	<i>m</i> 22.00		
Merlin.....			43	100 watt	<i>m</i> 16.00	688.00	**
Merritton.....	2,515	{	303	100 watt	<i>m</i> 9.00	3,343.00	1.33
			25	300 watt	<i>m</i> 25.00		
Midland.....	7,802	{	386	100 c.p.	<i>s</i> 10.00	6,219.17	0.80
			30	300 watt	<i>m</i> 22.00		
			36	500 watt	<i>m</i> 40.00		

\*\*Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Part of cost paid direct in form of debenture charges.



## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1932, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Milton.....	1,825	{ 204 3	100 watt 300 watt	<i>m</i> <i>m</i>	9.00 30.00	1,905.00	1.04
Milverton.....	1,064	{ 95 12	100 watt 200 watt	<i>m</i> <i>m</i>	9.00 12.00	999.00	0.94
Mimico.....	6,422	{ 214 207 47	100 watt 200 watt 300 watt	<i>m</i> <i>m</i> <i>m</i>	14.00 21.50 28.00	8,681.07	1.35
Mitchell.....	1,609	232	150 c.p.	<i>s</i>	9.00	2,088.00	1.30
Moorefield.....		25	100 watt	<i>m</i>	15.00	375.00	**
Mount Brydges.....		49	100 watt	<i>m</i>	10.00	490.00	**
Mount Forest..	1,914	{ 117 39 35	150 c.p. 250 c.p. 100 watt	<i>s</i> <i>s</i> <i>m</i>	12.00 14.00 12.00	2,370.00	1.24
Napanee.....	2,981	{ 136 26 40	100 c.p. 320 c.p. 300 watt	<i>s</i> <i>s</i> <i>m</i>	16.00 37.00 32.00	4,337.83	1.46
Neustadt.....	448	39	150 c.p.	<i>s</i>	25.00	975.00	2.18
Newbury.....	312	48	100 watt	<i>m</i>	15.00	720.00	2.31
New Hamburg.	1,462	{ 162 36 25	100 watt 200 watt 200 watt	<i>m</i> <i>m</i> <i>m</i>	9.00 12.50 15.00	2,256.95	1.54
New Toronto..	6,437	{ 221 17 14 28 14 131 2	75 watt 150 watt 200 watt 300 watt 300 watt 500 watt Intersection lights	<i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	15.00 18.00 19.00 22.00 27.00 30.00 28.00	8,647.98	1.34
Niagara Falls..	18,678	{ 801 2 60 234 4 197 4	100 c.p. 250 c.p. 600 c.p. 600 c.p. 600 c.p. 1,000 c.p. 100 watt	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>m</i>	11.00 13.00 18.00 40.00 60.00 45.00 11.00	29,755.81	1.59
Niagara-on-the-Lake.....	1,657	{ 215 25	100 watt 200 watt	<i>m</i> <i>m</i>	11.00 18.00	2,777.76	1.68

\*\*Population not shown in Government statistics. *s* Series system. *m* Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1932, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
Nipigon.....		32	100 watt <i>m</i>	\$ c. 15.00	\$ c. 480.00	\$ c. **
North York Twp.....		{ 81	100 watt <i>m</i>	12.00	5,083.67	**
		{ 20	100 watt <i>m</i>	13.00		
		{ 32	100 watt <i>m</i>	13.50		
		{ 12	100 watt <i>m</i>	15.00		
		{ 34	150 watt <i>m</i>	32.00		
		{ 65	200 watt <i>m</i>	23.00		
		{ 14	200 watt <i>m</i>	30.00		
		{ 1	100 watt sign	12.00		
		{ 1	400 w. Floodlight	31.00		
		{ 2	1,000 w. Floodlight	65.00		
Norwich.....	1,071	{ 113	100 watt <i>m</i>	10.00	2,120.00	1.98
		{ 28	400 watt <i>m</i>	35.00		
		{ 79	100 c.p. <i>s</i>	18.00		
		{ 6	100 c.p. <i>s</i>	20.00		
		{ 1	100 c.p. <i>s</i>	27.00		
		{ 41	100 watt <i>m</i>	18.00		
		{ 1	300 watt <i>m</i>	30.00		
		{ 46	100 c.p. <i>s</i>	14.00		
		{ 10	250 watt <i>m</i>	28.00		
		{ 38	450 c.p. <i>s</i>	35.00		
Orangeville....	2,764	{ 99	100 watt <i>m</i>	15.00	4,129.00	1.49
		{ 48	250 watt <i>m</i>	20.00		
		{ 830	100 c.p. <i>s</i>	10.00		
		{ 1	1,000 c.p. <i>s</i>	27.00		
		{ 39	100 watt <i>m</i>	11.00		
		{ 109	150 watt <i>m</i>	12.00		
		{ 30	200 watt <i>m</i>	16.00		
		{ 395	100 c.p. <i>s</i>	7.00		
		{ 784	400 c.p. <i>s</i>	25.00		
		{ 797	600 c.p. <i>s</i>	35.00		
Ottawa.....	127,332	{ 615	100 watt	6.00	72,349.35	0.57
		{ 2,940	100 watt <i>m</i>	48c. per Ft. )		
		{ 51	100 watt <i>m</i>	11.00		
		{ 12	200 watt <i>m</i>	16.00		
		{ 426	100 c.p. <i>s</i>	11.00		
		{ 335	250 c.p. <i>s</i>	14.00		
		{ 12	400 c.p. <i>s</i>	21.00		
		{ 39	500 c.p. <i>s</i>	35.00		
		{ 88	100 watt <i>m</i>	16.00		
		{ 88	100 watt <i>m</i>	16.00		
Oshawa.....	23,687	{ 395	100 c.p. <i>s</i>	7.00	10,524.15	0.44
		{ 1	1,000 c.p. <i>s</i>	27.00		
		{ 39	100 watt <i>m</i>	11.00		
		{ 109	150 watt <i>m</i>	12.00		
		{ 30	200 watt <i>m</i>	16.00		
		{ 395	100 c.p. <i>s</i>	7.00		
		{ 784	400 c.p. <i>s</i>	25.00		
		{ 797	600 c.p. <i>s</i>	35.00		
		{ 615	100 watt	6.00		
		{ 2,940	100 watt <i>m</i>	48c. per Ft. )		
Otterville.....		{ 51	100 watt <i>m</i>	11.00	753.00	**
		{ 12	200 watt <i>m</i>	16.00		
		{ 426	100 c.p. <i>s</i>	11.00		
		{ 335	250 c.p. <i>s</i>	14.00		
		{ 12	400 c.p. <i>s</i>	21.00		
		{ 39	500 c.p. <i>s</i>	35.00		
		{ 88	100 watt <i>m</i>	16.00		
		{ 88	100 watt <i>m</i>	16.00		
		{ 88	100 watt <i>m</i>	16.00		
		{ 88	100 watt <i>m</i>	16.00		
Owen Sound...	12,673	{ 426	100 c.p. <i>s</i>	11.00	10,976.59	0.87
		{ 335	250 c.p. <i>s</i>	14.00		
		{ 12	400 c.p. <i>s</i>	21.00		
		{ 39	500 c.p. <i>s</i>	35.00		
		{ 88	100 watt <i>m</i>	16.00		
		{ 88	100 watt <i>m</i>	16.00		
		{ 88	100 watt <i>m</i>	16.00		
		{ 88	100 watt <i>m</i>	16.00		
		{ 88	100 watt <i>m</i>	16.00		
		{ 88	100 watt <i>m</i>	16.00		
Paisley.....	693	{ 88	100 watt <i>m</i>	16.00	1,408.00	2.03
		{ 88	100 watt <i>m</i>	16.00		
		{ 88	100 watt <i>m</i>	16.00		
		{ 88	100 watt <i>m</i>	16.00		
		{ 88	100 watt <i>m</i>	16.00		
		{ 88	100 watt <i>m</i>	16.00		
		{ 88	100 watt <i>m</i>	16.00		
		{ 88	100 watt <i>m</i>	16.00		
		{ 88	100 watt <i>m</i>	16.00		
		{ 88	100 watt <i>m</i>	16.00		

\*\*Population not shown in Government statistics.    *s* Series system.    *m* Multiple system.

## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1932, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				\$ c.	\$ c.	\$ c.
Palmerston....	1,750	{ 95	80 c.p.	<i>s</i> 9.00	1,718.25	0.98
		{ 6	100 c.p.	<i>s</i> 10.00		
		{ 4	250 c.p.	<i>s</i> 25.00		
		{ 1	40 watt	<i>m</i> 9.00		
		{ 10	60 watt	<i>m</i> 9.00		
		{ 2	100 watt	<i>m</i> 10.00		
		{ 14	150 watt	<i>m</i> 10.00		
		{ 2	250 watt	<i>m</i> 25.00		
		{ 15	300 watt	<i>m</i> 25.00		
Paris.....	4,263	{ 1	500 watt	<i>m</i> 35.00	5,674.90	1.33
		{ 448	100 c.p.	<i>s</i> 9.00		
		{ 10	400 c.p.	<i>s</i> 32.00		
		{ 2	60 watt	<i>m</i> 7.00		
		{ 18	100 watt	<i>m</i> 9.00		
Parkhill.....	968	{ 2	500 watt	<i>m</i> 35.00	1,437.00	1.48
		{ 25	500 watt	<i>m</i> 40.00		
		{ 78	100 watt	<i>m</i> 14.00		
Penetanguishene	3,870	{ 15	200 watt	<i>m</i> 23.00	2,216.50	0.57
		{ 184	100 c.p.	<i>s</i> 11.00		
		{ 9	200 watt	<i>m</i> 15.00		
Perth.....	3,915	{ 4	300 watt	<i>m</i> 20.00	2,052.25	0.52
		{ 70	100 c.p.	<i>s</i> 15.00		
		{ 12	250 c.p.	<i>s</i> 25.00		
		{ 7	400 c.p.	<i>s</i> 28.00		
Peterborough..	22,798	{ 13	600 c.p.	<i>s</i> 40.00	19,508.00	0.86
		{ 15	400 c.p.	<i>s</i> 43.00		
		{ 215	60 watt	<i>m</i> 9.00		
		{ 362	100 watt	<i>m</i> 10.00		
Petrolia.....	2,431	{ 501	300 watt	<i>m</i> 18.00	2,652.00	1.09
		{ 145	150 c.p.	<i>s</i> 12.00		
Picton.....	3,140	{ 24	600 c.p.	<i>s</i> 38.00	4,364.04	1.39
		{ 222	100 c.p.	<i>s</i> 12.00		
Plattsville.....		{ 85	250 c.p.	<i>s</i> 20.00	510.00	**
		{ 34	100 watt	<i>m</i> 15.00		
Point Edward..	1,114	{ 103	150 c.p.	<i>s</i> 13.00	1,629.30	1.46
		{ 15	250 c.p.	<i>s</i> 20.00		
Port Arthur....	19,430	{ 2,709	100 watt	<i>m</i> 5.00	18,984.96	0.98
		{ 232	300 watt	<i>m</i> 10.00		
		{ 208	500 watt	<i>m</i> 15.00		
Port Colborne..	6,494	{ 15	400 c.p.	<i>s</i> 23.00	7,829.99	††
		{ 78	600 c.p.	<i>s</i> 25.00		
		{ 232	100 watt	<i>m</i> 12.00		
		{ 28	100 watt	<i>m</i> 14.00		
		{ 127	200 watt	<i>m</i> 18.00		

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††Part of cost paid direct in form of debenture charges.



## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1932, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
Port Credit....	1,600	268	100 watt	<i>m</i>	\$ c. 10.00	\$ c. 2,680.00	\$ c. 1.68
Port Dalhousie.	1,394	{ 128 2	100 watt 200 watt	<i>m</i> <i>m</i>	12.50 15.00	1,630.00	1.17
Port Dover....	1,584	{ 172 19	100 watt 300 watt	<i>m</i> <i>m</i>	12.00 20.00	2,569.00	1.62
Port Elgin.....	1,300	{ 104 26	100 watt 200 watt	<i>m</i> <i>m</i>	14.00 22.00	2,029.41	1.56
Port Hope.....	4,601	384	100 c.p.	<i>s</i>	12.00	4,608.00	1.00
Port McNicoll..	875	47	100 watt	<i>m</i>	11.00	517.00	0.59
Port Perry.....	1,130	{ 100 2	100 watt 200 watt	<i>m</i> <i>m</i>	14.00 20.00	1,403.00	1.24
Port Rowan...	676	53	100 watt	<i>m</i>	24.00	1,242.00	1.84
Port Stanley...	694	179	100 watt	<i>m</i>	11.00	1,963.44	2.83
Prescott.....	3,078	{ 169 105	100 watt 2-Lt. Brackets	<i>m</i> <i>m</i>	10.00 17.00	3,475.00	1.13
Preston.....	6,173	{ 344 9 40 6	150 c.p. 250 watt 500 watt 5-lt. stds.	<i>s</i> <i>m</i> <i>m</i> <i>m</i>	10.00 18.00 30.00 30.00	4,973.62	0.81
Priceville.....		14	100 watt	<i>m</i>	40.00	560.00	**
Princeton.....		37	100 watt	<i>m</i>	13.00	481.00	**
Queenston.....		27	100 watt	<i>m</i>	16.00	566.16	**
Richmond.....	376	25	100 watt	<i>m</i>	23.00	555.84	1.48
Richmond Hill.	1,235	{ 99 17 6	75 watt 100 watt 200 watt	<i>m</i> <i>m</i> <i>m</i>	11.00 12.00 16.00	1,389.00	1.12
Ridgetown.....	1,990	{ 186 1 73 19	150 c.p. 1,000 c.p. 100 watt 500 watt	<i>s</i> <i>s</i> <i>m</i> <i>m</i>	10.00 40.00 10.00 38.00	3,367.46	††
Ripley.....	409	{ 43 6	100 watt 200 watt	<i>m</i> <i>m</i>	24.00 39.00	1,266.00	3.10
Riverside.....	5,125	{ 285 72	100 watt 150 watt	<i>m</i> <i>m</i>	11.00 14.50	4,181.42	††
Rockwood.....		85	100 watt	<i>m</i>	9.00	750.75	**

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## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1932, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
Rodney.....	738	{ 78 14	100 watt 200 watt	<i>m</i> <i>m</i>	\$ c. 10.00 18.00	\$ c. 1,028.72	\$ c. 1.39
Rosseau.....	291	31	100 watt	<i>m</i>	40.00	1,240.00	4.26
Russell.....		46	100 watt	<i>m</i>	22.00	1,012.00	**
St. Catharines..	25,645	2,696	100 watt	<i>m</i>	7.50	22,252.82	††
St. George.....		38	100 watt	<i>m</i>	8.00	304.00	**
St. Jacobs.....		46	100 watt	<i>m</i>	10.00	460.00	**
St. Marys.....	4,032	{ 241 1 124 12	100 c.p. 250 c.p. 250 c.p. 300 watt	<i>s</i> <i>s</i> <i>s</i> <i>m</i>	8.00 8.00 12.00 12.00	3,545.54	0.88
St. Thomas....	16,582	{ 1,065 28 1 114 6 22	100 c.p. 250 c.p. 600 c.p. 600 c.p. 60 watt 300 watt	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>m</i> <i>m</i>	9.00 13.00 32.00 34.00 4.50 22.00	14,615.28	††
Sandwich.....	11,408	{ 272 303 55 31 16 10 33	100 c.p. 100 c.p. 400 c.p. 400 c.p. 600 c.p. 100 watt 200 watt	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>m</i> <i>m</i>	12.00 13.00 26.00 28.00 35.00 12.00 21.00	9,668.67	††
Sarnia.....	17,540	{ 1,014 51 65 79 13 3 8 14	150 c.p. 250 c.p. 400 c.p. 600 c.p. 600 c.p. 100 watt 150 watt 300 watt	<i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i>	12.00 16.50 22.00 35.00 45.00 12.00 16.50 32.00	18,322.96	††
Scarboro Twp..		{ 227 2 19 2 433 7 317	80 c.p. 150 c.p. 40 watt 60 watt 100 watt 200 watt 300 watt	<i>s</i> <i>s</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	12.00 17.00 12.00 18.00 12.00 17.00 24.00	16,208.44	**
Seaforth.....	1,688	{ 65 58 20	80 c.p. 100 c.p. 300 watt	<i>s</i> <i>s</i> <i>m</i>	10.00 11.00 25.00	1,788.00	1.06
Shelburne.....	1,129	96	100 watt	<i>m</i>	10.00	960.00	0.85

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## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1932, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Simcoe.....	5,263	{ 272	100 c.p.	s	11.00	4,383.91	††
		{ 27	1,000 c.p.	s	40.00		
		{ 7	150 watt	m	11.00		
		{ 8	200 watt	m	15.00		
		{ 6	200 watt	m	24.00		
		{ 2	500 watt	m	53.00		
		{ 1	1,000 watt	m	60.00		
Smiths Falls...	7,486	{ 18	60 watt	m	9.50	7,862.04	1.05
		{ 104	100 watt	m	18.00		
		{ 253	300 watt	m	23.00		
Southampton..	1,660	{ 113	100 watt	m	14.00	2,325.20	1.40
		{ 32	250 watt	m	22.00		
		{ 39	Beach Lamps 3 months	m	12.00		
Springfield.....	387	50	100 watt	m	11.00	550.00	1.42
Stamford Twp. ....		848	100 watt	m	9.50	7,997.37	**
Stayner.....	951	{ 77	100 c.p.	s	10.00	1,022.00	1.07
		{ 18	200 watt	m	14.00		
Stirling.....	937	119	150 c.p.	s	12.00	1,389.67	1.48
Stouffville.....	1,117	126	100 watt	m	14.00	1,764.00	1.58
Stratford.....	18,626	{ 861	100 c.p.	s	10.00	16,434.00	0.88
		{ 74	600 c.p.	s	25.00		
		{ 116	600 c.p.	s	30.00		
		{ 6	600 c.p.	s	35.00		
		{ 62	1,000 c.p.	s	34.00		
		{ 4	100 watt	m	10.00		
		{ 4	100 watt	m	34.00		
Strathroy.....	2,870	{ 331	100 c.p.	s	9.00	4,343.46	1.51
		{ 21	250 c.p.	s	15.00		
		{ 34	300 watt	m	31.00		
Sunderland.....		{ 33	100 watt	m	18.00	632.75	**
		{ 4	500 watt	m	35.00		
Sutton.....	805	{ 133	100 watt	m	13.00	1,906.50	2.37
		{ 20	200 watt	m	17.00		
Tara.....	454	67	100 watt	m	18.00	1,206.00	2.66
Tavistock.....	995	{ 78	100 watt	m	10.00	1,212.00	1.22
		{ 36	200 watt	m	12.00		
Tecumseh.....	2,550	{ 8	400 c.p.	s	21.00	1,049.50	††
		{ 60	100 watt	m	12.00		
Teeswater.....	832	{ 38	150 c.p.	s	19.00	1,402.00	1.69
		{ 20	400 c.p.	s	34.00		

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## STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1932, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
Thamesford.....		47	100 watt	<i>m</i>	\$ c. 11.00	\$ c. 517.00	\$ c. **
Thamesville....	786	{ 67 33 7	100 watt 200 watt 200 watt	<i>m</i> <i>m</i> <i>m</i>	{ 9.00 14.00 18.00 }	1,191.00	1.52
Thedford.....	515	69	100 watt	<i>m</i>	15.00	1,035.00	2.01
Thorndale.....		32	100 watt	<i>m</i>	12.00	382.10	**
Thornton.....		22	100 watt	<i>m</i>	40.00	880.00	**
Thorold.....	5,068	{ 382 40 28 2	75 watt 100 watt 200 watt 300 watt	<i>m</i> <i>m</i> <i>m</i> <i>m</i>	{ 7.50 8.00 12.00 15.00 }	3,551.00	0.70
Tilbury.....	1,929	{ 99 25	100 watt 200 watt	<i>m</i> <i>m</i>	{ 11.00 19.50 }	1,563.72	0.81
Tillsonburg....	3,287	{ 261 3 6 43	100 c.p. 250 c.p. 300 watt 500 watt	<i>s</i> <i>s</i> <i>m</i> <i>m</i>	{ 8.50 13.00 32.00 42.00 }	3,283.55	1.00
Toronto.....	621,596	{ 46,215 3,085 67 1,400 150 5 364 391 68 76	100 watt 200 watt 250 watt 300 watt 500 watt 1,000 watt 100 w. 5-lt. stds. 300 w. 1-lt. stds. 500 w. 1-lt. stds. 500 w. 1-lt. stds.	<i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i> <i>m</i>	{ 8.00-10.00 18.00-23.00 20.00 28.00-30.00 45.00 90.00 47.50 50.00 47.50 52.50 }	528,737.84	0.85
Toronto Twp....		{ 412 1	100 watt Intersection Lt.	<i>m</i> <i>m</i>	{ 12.00 43.00 }	4,975.20	**
Tottenham....	575	49	150 c.p.	<i>s</i>	25.00	1,225.08	2.13
Trenton.....	6,288	{ 49 309 1	600 c.p. 100 watt 500 watt	<i>s</i> <i>m</i> <i>m</i>	{ 77.00 15.00 77.00 }	8,430.59	1.34
Tweed.....	1,247	126	100 c.p.	<i>s</i>	15.00	1,888.75	1.51
Uxbridge.....	1,591	{ 129 1	100 watt 200 watt	<i>m</i> <i>m</i>	{ 12.00 14.00 }	1,556.19	0.98
Victoria Harbor	1,160	78	100 watt	<i>m</i>	9.00	702.00	0.61
Walkerton.....	2,310	{ 1 114 38	50 c.p. 100 c.p. 200 c.p.	<i>s</i> <i>s</i> <i>s</i>	{ 6.00 12.50 24.50 }	2,159.42	0.93

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## STATEMENT "C"—Concluded

Street Lighting Installation in Hydro Municipalities, December 31, 1932, showing  
Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost capita
					\$ c.	\$ c.	\$ c.
Walkerville....	11,351	{ 33	600 c.p.	<i>s</i>	45.00	12,746.46	††
		{ 138	100 watt	<i>m</i>	8.00		
		{ 332	150 watt	<i>m</i>	11.00		
		{ 63	200 watt	<i>m</i>	13.00		
		{ 110	300 watt	<i>m</i>	18.00		
Wallaceburg...	4,501	{ 185	150 c.p.	<i>s</i>	12.00	4,477.82	0.99
		{ 12	400 c.p.	<i>s</i>	25.00		
		{ 3	400 c.p.	<i>s</i>	39.00		
		{ 50	300 watt	<i>m</i>	39.00		
Wardsville.....	182	35	75 watt	<i>m</i>	20.00	700.00	3.85
Warkworth.....		{ 26	100 watt	<i>m</i>	18.00	648.00	**
		{ 6	200 watt	<i>m</i>	30.00		
Waterdown....	887	{ 75	100 watt	<i>m</i>	11.00	930.00	1.05
		{ 6	200 watt	<i>m</i>	17.50		
Waterford.....	1,096	{ 157	100 watt	<i>m</i>	8.00	1,608.00	1.47
		{ 9	200 watt	<i>m</i>	20.00		
		{ 3	500 watt	<i>m</i>	35.00		
Waterloo.....	8,550	{ 339	80 c.p.	<i>s</i>	8.00	7,475.66	0.87
		{ 120	100 c.p.	<i>s</i>	10.00		
		{ 91	150 watt	<i>m</i>	10.00		
		{ 5	200 watt	<i>m</i>	12.00		
		{ 18	300 watt	<i>m</i>	21.00		
		{ 3	500 watt	<i>m</i>	30.00		
		{ 9	500 watt	<i>m</i>	35.00		
		{ 10	3-Lt. stds.	<i>m</i>	25.00		
Watford.....	915	{ 90	100 watt	<i>m</i>	12.50	1,341.84	1.47
		{ 11	200 watt	<i>m</i>	20.00		
Waubausheue.....		45	100 watt	<i>m</i>	8.00	360.00	**
Welland.....	10,338	{ 178	600 c.p.	<i>s</i>	30.00	11,052.52	††
		{ 405	100 watt	<i>m</i>	11.00		
		{ 44	200 watt	<i>m</i>	18.00		
		{ 12	300 watt	<i>m</i>	30.00		
		{ 4	500 watt	<i>m</i>	28.00		
Wellesley.....		60	100 watt	<i>m</i>	12.00	720.00	**
Wellington....	904	{ 46	100 c.p.	<i>s</i>	12.00	1,118.04	1.24
		{ 32	150 c.p.	<i>s</i>	19.00		
West Lorne....	812	{ 83	100 watt	<i>m</i>	10.00	1,010.04	1.24
		{ 10	200 watt	<i>m</i>	18.00		

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††Part of cost paid direct in form of debenture charges.

## STATEMENT "C"—Concluded

Street Lighting Installation in Hydro Municipalities, December 31, 1932, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					\$ c.	\$ c.	\$ c.
Weston.....	4,618	{ 456	100 c.p.	<i>s</i>	7.50	7,847.45	1.70
		{ 2	250 c.p.	<i>s</i>	10.00		
		{ 113	600 c.p.	<i>s</i>	30.00		
		{ 20	300 watt	<i>m</i>	11.00		
		{ 5	5-Lt. stds.		21.00		
		{ 2	Electric Signs		110.00		
Westport.....	675	60	100 watt	<i>m</i>	33.00	2,062.16	†
Wheatley.....	765	{ 63	100 watt	<i>m</i>	12.00	1,856.00	2.43
		{ 40	300 watt	<i>m</i>	25.00		
Whitby.....	5,425	{ 125	80 c.p.	<i>s</i>	9.00	3,286.95	0.61
		{ 66	100 c.p.	<i>s</i>	10.00		
		{ 163	100 watt	<i>m</i>	7.50		
		{ 3	500 watt	<i>m</i>	11.50		
Warton.....	1,881	{ 100	100 watt	<i>m</i>	18.00	2,550.00	1.36
		{ 25	200 watt	<i>m</i>	30.00		
Williamsburg.....		16	100 watt	<i>m</i>	12.00	192.00	**
Winchester....	980	118	100 watt	<i>m</i>	9.00	1,062.00	1.08
Windermere....	124	13	100 watt	<i>m</i>	35.00	455.00	3.67
Windsor.....	68,079	{ 2,902	100 c.p.	<i>s</i>	11.50	76,272.21	††
		{ 11	250 c.p.	<i>s</i>	17.50		
		{ 976	400 c.p.	<i>s</i>	27.50		
		{ 703	600 c.p.	<i>s</i>	36.00		
		{ 66	1,000 c.p.	<i>s</i>	46.00		
Wingham.....	2,201	{ 101	100 c.p.	<i>s</i>	19.00	3,410.34	1.55
		{ 25	200 c.p.	<i>s</i>	32.00		
		{ 22	200 watt	<i>m</i>	32.00		
Woodbridge....	786	83	100 watt	<i>m</i>	10.00	830.04	1.06
Woodstock....	10,840	{ 534	100 c.p.	<i>s</i>	8.00	8,003.40	0.74
		{ 13	250 c.p.	<i>s</i>	20.00		
		{ 89	75 watt	<i>m</i>	8.00		
		{ 25	150 watt	<i>m</i>	12.00		
		{ 1	250 watt	<i>m</i>	12.00		
		{ 75	300 watt	<i>m</i>	32.00		
Woodville.....	417	{ 36	100 watt	<i>m</i>	12.00	503.00	1.21
		{ 4	200 watt	<i>m</i>	20.00		
Wyoming.....	475	50	100 watt	<i>m</i>	15.00	750.00	1.58
Zurich.....		63	100 watt	<i>m</i>	11.00	693.00	**

†12½ months' operation.

\*\*Population not shown in Government statistics. *s* Series system. *m* Multiple system.

††Part of cost paid direct in form of debenture charges.



## STATEMENT "D"

(pages 380 to 397)

Statistics Relating to the Supply of Electrical Energy to Consumers  
by Individual Ontario Municipalities Served by the  
Hydro-Electric Power Commission  
for the year 1932

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## STATEMENT "E"

(pages 398 to 413)

Cost of Power to Municipalities and Rates to Consumers for  
Domestic Service—Commercial Light Service—Power Service  
in Ontario Urban Municipalities Served by the  
Hydro-Electric Power Commission  
for the year 1932



## STATEMENT "D"

### Statistics Relating to the Supply of Electrical Energy to Consumers in Ontario Municipalities Served by The Hydro-Electric Power Commission

The following tabulation of various statistical data relating to the supply of electrical energy to consumers by individual municipalities receiving power at cost from the Commission sets forth, regarding the results of operation from the standpoint of the consumers, much useful and interesting information.

The policy and practice of the Commission has been, and is, to make as widespread and beneficial a distribution of electrical energy as possible, and to extend to every community that can economically be reached by transmission lines, the benefit of electrical service. Even where, in certain localities, by reason of the distance from a source of supply or of the smallness of the quantity of power required by the municipality, the cost per horsepower to the municipality—and, consequently, the cost of service to the consumer—must unavoidably be higher than in more favourably situated communities, service has not been withheld when the consumers were able and willing to pay the cost.

The accompanying diagram summarizes graphically certain data of Statement "D," respecting the average cost to the consumer. It will be observed that the total amount of the energy sold in municipalities where circumstances necessitate rates which result in the higher average costs to the consumer is relatively insignificant. With respect to power service, it should be noted that the statistics of Statement "D," and of the diagram, cover mainly retail power service supplied to the smaller industrial consumers. The average amount of power taken by the industrial consumers served by the municipalities is about 40 horsepower. The Commission serves certain large power consumers direct on behalf of the various systems of municipalities.

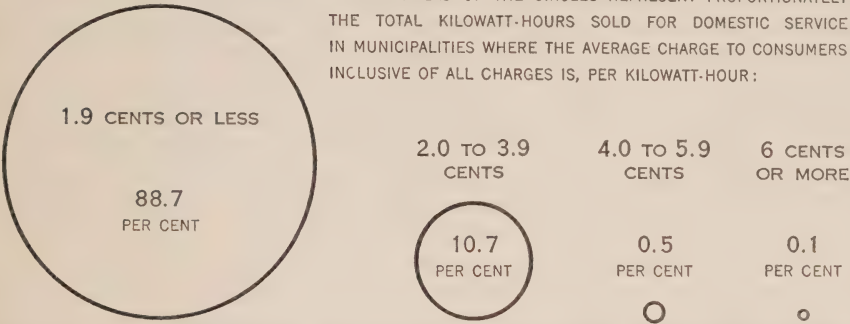
It should be kept in mind that the revenues reported in Statement "D," and used for purposes of calculating the net unit costs to the consumer, are the total revenues contributed by the consumers, and include, in addition to the cost of power, sums specifically applicable to the retirement of capital, and also operating surplus which is in part applied to retirement of capital or extension of plant and is in part returned in cash to the consumers.

It should specially be noted that average costs per kilowatt-hour or per horsepower if employed indiscriminately as a criterion by means of which to compare the rates or prices for electrical service in various municipalities, will give very misleading results. The average costs per kilowatt-hour, as given in Statement "D" for respective classes of service in each municipality, are simply statistical results obtained by dividing the respective revenues by the aggregate kilowatt-hours sold. As such, the data reflect the combined influence of a number of factors, of which the rates or prices to consumers are but one factor. Owing to the varying influence of factors other than the rates, it is seldom found that in any two municipalities the average cost per kilowatt-hour to the consumers, even of the same classification, is in proportion to the respective rates for service. Instances even occur where for a class of consumers in one municipality, the average costs per kilowatt-hour are substantially lower than for the same class in another municipality, even though the rates are higher.

COST OF ELECTRICAL SERVICE  
IN MUNICIPALITIES SERVED BY THE  
HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

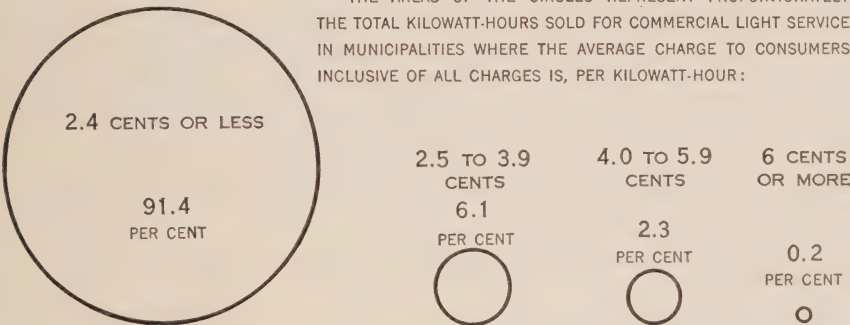
DOMESTIC SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR DOMESTIC SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



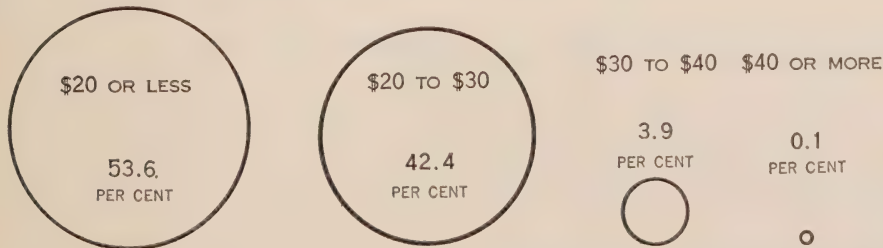
COMMERCIAL LIGHT SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR COMMERCIAL LIGHT SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



POWER SERVICE SUPPLIED BY MUNICIPALITIES

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE AGGREGATE HORSEPOWER SOLD FOR POWER SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER HORSEPOWER PER YEAR:



With respect to domestic service, for example, instances will be observed where two municipalities have identical prices or rates for domestic service, but the average cost per kilowatt-hour to the consumer varies by as much as 100 per cent. Such variations are principally due to differences in the extent of utilization of the service for the operation of electric ranges, water heaters and other appliances, an indication of which is afforded by the statistics of average monthly consumption.

In the case of power service, average unit costs are still less reliable as an indication of the relative rates for service in different municipalities. In the case of hydro-electric power supplied to industries at cost, the rate schedules incorporate charges both for demand and for energy consumption, and thus, although the quantity of power taken by a consumer—that is, the demand as measured in horsepower—is the most important factor affecting costs and revenues, it is not the only one. The number of hours the power is used in the month or year—which, in conjunction with the power, determines the energy consumption, as measured in kilowatt-hours—also affects the costs and revenues. Consequently, in two municipalities charging the same rates for power service, the average cost per horsepower to the consumer will vary in accordance with the consumers' average number of hours' use of the power per month. A greater average energy consumption per horsepower increases the average cost per horsepower and decreases the average cost per kilowatt-hour, to the consumer, and *vice versa*.\*

\*In view of the fact that the data of Statement "D" have been misinterpreted in the making of certain comparisons as to the cost of electricity in various territories, it is desirable to add a word of caution respecting their significance. Essentially, the average cost or revenue per kilowatt-hour is *not a criterion of rates* even with similar forms of rate schedules and for the same class of service. Particularly is this true when revenues and consumptions of all classes of service, and of all kinds of rate schedules, are indiscriminately lumped together in order to deduce a so-called "average cost or rate per kilowatt-hour" for all services.

*In one community rates for each class of service, and the cost to every consumer in each class for any given service and consumption, may be substantially higher than in another community, and yet there may be in the former community, a lower "average revenue per kilowatt-hour."* This will readily be perceived from a simple arithmetical example.

EXAMPLE.—Assume sales of electrical energy by two electric utilities, A and B, in each case 10,000,000 kilowatt-hours.

Class of service	CASE A			CASE B		
	Higher rates and lower revenues per kilowatt-hour			Lower rates and higher revenues per kilowatt-hour		
	Energy sales	Rate per kw-hr.	Revenue	Energy sales	Rate per kw-hr.	Revenue
	kw-hr.	cents	\$	kw-hr.	cents	\$
Residence.....	1,000,000	4	40,000	3,000,000	3	90,000
Power.....	9,000,000	1	90,000	7,000,000	0.75	52,500
Total.....	10,000,000	.....	130,000	10,000 000	.....	142,500
Average revenue..	1.3 cents per kw-hr.			1.425 cents per kw-hr.		

It will be observed that in Case A the rates both for residence and for power service are 33 per cent *higher* than in Case B, but the *average revenue* per kilowatt-hour is nearly 9 per cent less.

In this instance, the key to the situation lies in the *relative quantities* of energy sold to each class. Service to large power consumers entails a smaller capital investment in distribution lines and equipment and lower operating costs per kilowatt-hour delivered, than does service to domestic and to commercial light consumers, and even where the rates for all classes of service are low, produces a smaller average revenue per kilowatt-hour. Consequently, if one electrical utility as compared with another sells a larger proportion of its energy for power purposes, its "average revenue per kilowatt-hour" may easily be lower than that of the other utility even though its rates for every class of service are substantially higher.



Although the derived statistics of Statement "D" are valueless as a means of comparing the *rates* in one municipality with those in another, they nevertheless fulfil an important function in affording a general measure of the *economy of service* to consumers in the co-operating Ontario municipalities—an economy that has resulted primarily from the low rates themselves, and secondarily from the extensive use of the service that has been made economically possible by the low rates.

Actual bills rendered to typical consumers for similar service under closely comparable circumstances constitute the best basis for effecting comparisons. In researches respecting rates to consumers therefore the actual *rate schedules* of Statement "E" should be employed, and not statistics of average revenues per kilowatt-hour, as these are valueless for rate comparisons—and particularly so when all classifications of service are combined.

In any consideration of the relative economies of electrical service in the various municipalities—whether based on the actual rates for service as set forth in Statement "E," or on the derived statistics resulting from the rates and other factors as presented in Statement "D"—full account should be taken respectively, of the influence upon costs of such factors as the size of the municipality, the distance from the source of power, the features of the power developments from which service is received, the sizes and concentrations of adjacent markets for electricity, and the sizes and characters of the loads supplied under the various classifications by the local electrical utility to the ultimate consumers.

In Statement "D" account has been taken of the sizes of municipalities by grouping them according to whether they are (i) cities—over 10,000 population; (ii) towns of 2,000 to 10,000 population; or (iii) small towns (under 2,000 population), villages, and suburban areas in townships (which are comparable in respect of conditions of supply to the smaller towns and villages). The populations and the approximate transmission distances from the nearest of the generating stations supplying the system, are also given.

A feature of the electrical service in Ontario municipalities served by the Hydro-Electric Power Commission is the strikingly large average annual consumption per domestic consumer. There are in all about 196 Ontario municipalities where the average annual consumption per domestic consumer is in excess of 600 kilowatt-hours. Of the 81 cities and towns with populations of 2,000 or more—in which over 85 per cent of the domestic consumers of the undertaking are served—no less than 52 have an average annual consumption per domestic consumer in excess of 1,000 kilowatt-hours; of these, 28 have an average annual consumption per domestic consumer in excess of 1,500 kilowatt-hours, and 10 have an average annual consumption per domestic consumer in excess of 2,000 kilowatt-hours.

The high average consumption for domestic service results essentially from the policy of the undertaking in providing electrical service "at cost"; the rate schedules scientifically designed according to this principle automatically encourage liberal use of the service. Under the standard rate schedules employed by Ontario municipalities, follow-up rates of 1 cent and 1.25 cents (less 10 per cent) are in common use, and as a rule even where the higher initial rates per kilowatt-hour obtain, it is only necessary for the domestic consumer to reach a monthly charge of from \$2.00 to \$3.00 when he obtains the benefit of a follow-up rate of 1.8 cents net. The cost of electric cooking is thus within reach of most of the domestic consumers in Ontario.



## STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers  
For Domestic Service, for Commercial Light Service

## Group I—CITIES

Municipality	System	Population	Distance from nearest generating station supplying system	Domestic service					
				Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	\$ c.	kw-hr.		kw-hr.	\$ c.	cts.
Belleville.....	E.O.	13,914	13	77,863.76	4,271,796	3,474	102	1.87	1.9
Brantford.....	Nia.	30,153	79	180,311.93	11,988,699	7,317	140	2.10	1.5
Chatham.....	Nia.	16,434	193	80,191.86	3,800,955	3,600	88	1.86	2.1
East Windsor....	Nia.	16,081	239	74,200.28	4,054,600	2,860	118	2.16	1.8
Fort William....	T.B.	24,470	87	205,660.88	27,829,931	5,359	432	3.20	0.7
Galt.....	Nia.	13,960	92	105,155.34	5,578,232	3,554	131	2.47	1.9
Guelph.....	Nia.	21,201	75	102,151.29	6,290,467	4,964	106	1.71	1.6
Hamilton.....	Nia.	150,065	53	924,806.69	63,961,755	36,639	145	2.10	1.4
Kingston.....	E.O.	22,534	50	103,043.73	5,601,299	5,623	83	1.53	1.8
Kitchener.....	Nia.	31,114	95	194,660.72	11,694,129	7,004	139	2.32	1.7
London.....	Nia.	71,310	123	484,819.17	36,928,253	16,472	187	2.45	1.3
Niagara Falls....	Nia.	18,678	1	144,088.85	11,767,280	4,287	228	2.80	1.2
Oshawa.....	E.O.	23,687	75	149,027.59	5,962,737	5,820	85	2.13	2.5
Ottawa.....	E.O.	127,332	1	415,204.32	45,738,697	12,180	313	2.84	0.9
Owen Sound....	G.B.	12,673	32	59,590.65	3,402,459	3,131	91	1.59	1.8
Peterborough....	E.O.	22,798	2	117,000.80	6,422,678	5,259	102	1.85	1.8
Port Arthur....	T.B.	19,430	73	108,207.21	9,147,590	4,090	186	2.20	1.2
St. Catharines...	Nia.	25,645	18	145,074.32	11,366,870	6,396	148	1.89	1.3
St. Thomas.....	Nia.	16,582	134	105,753.69	6,969,882	3,974	146	2.22	1.5
Sarnia.....	Nia.	17,540	205	104,014.86	5,337,045	4,496	99	1.93	1.9
Stratford.....	Nia.	18,626	119	150,119.36	9,123,120	4,335	175	2.89	1.6
Toronto.....	Nia.	621,596	78	3,692,436.65	253,550,661	149,786	141	2.05	1.5
Toronto D.C. and 60 cycle*.....				42,673.22	1,416,093	642	184	5.54	3.0
Welland.....	Nia.	10,338	14	51,243.01	2,749,306	2,247	102	1.90	1.9
Windsor.....	Nia.	68,079	238	494,148.42	30,429,981	14,434	176	2.85	1.6
Woodstock.....	Nia.	10,840	94	77,151.03	4,532,475	2,895	130	2.20	1.7

\*This,—with the exception of a relatively small D.C. power load,—is a special service not created by the Hydro-Electric Power Commission but acquired through the purchase of a privately owned company. It does not include Street Railway power.

## Group II—TOWNS

			miles	\$ c.		kw-hr.	kw-hr.	\$ c.		cts.
Alexandria.....	E.O.	2,400	30	7,463.80	147,654	290	42	2.14	5.0	
Amherstburg....	Nia.	3,112	257	20,941.59	1,049,217	637	137	2.74	2.0	
Aylmer.....	Nia.	1,998	145	11,389.62	529,470	625	71	1.52	2.2	
Barrie.....	G.B.	7,411	48	51,192.96	3,089,079	1,850	139	2.31	1.7	
Bowmanville†....	E.O.	3,648	66			1,034				
Brampton.....	Nia.	5,012	78	37,150.89	2,482,603	1,367	151	2.26	1.5	
Brockville.....	E.O.	9,485	62	43,776.79	2,350,476	2,508	78	1.45	1.9	
Carleton Place...	E.O.	4,269	47	19,766.86	548,161	951	48	1.73	3.6	
Cobourg.....	E.O.	5,478	36	27,555.43	862,873	1,150	62	2.00	3.2	
Collingwood.....	G.B.	5,730	24	27,536.36	1,414,502	1,413	83	1.62	1.9	
Dundas.....	Nia.	5,137	52	21,701.90	1,194,400	1,204	83	1.50	1.8	
Dunnville.....	Nia.	3,506	37	13,295.04	549,584	729	63	1.52	2.4	

†14 months' operation.

"D"

in Ontario Municipalities Served by the Commission  
and for Power Service during the Year 1932

Population, 10,000 or more

Commercial light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
49,324.85	2,231,389	502	370	8.19	2.2	45,668.32	90	2,411.3	4,066
61,036.75	5,204,948	1,105	423	4.96	1.2	†116,247.12	123	6,024.0	8,643
70,132.08	3,588,530	720	415	8.12	1.9	60,468.25	104	3,430.0	4,424
18,724.69	756,671	262	241	5.96	2.5	35,990.63	37	1,634.7	3,159
63,991.03	3,026,320	854	295	6.24	2.1	63,763.80	105	3,231.5	6,318
43,334.59	2,192,639	494	370	7.31	2.0	77,955.69	112	4,323.7	4,160
46,424.45	3,163,914	738	357	5.24	1.5	103,848.54	139	6,519.6	5,841
358,727.52	27,849,951	5,177	448	5.77	1.3	1,472,506.51	1,308	103,817.3	43,124
72,814.30	4,051,282	886	381	6.85	1.8	96,161.14	145	4,821.0	6,654
105,541.11	6,078,351	961	527	9.15	1.7	224,906.09	246	11,896.1	8,211
201,201.31	13,743,443	2,802	409	5.98	1.5	398,994.45	488	20,241.0	19,762
61,319.99	5,067,151	686	610	7.38	1.2	67,524.96	87	3,880.9	5,060
56,371.52	2,103,116	517	339	9.09	2.7	145,636.95	100	7,160.8	6,437
161,026.05	9,918,752	1,373	602	9.77	1.6	95,043.76	220	6,378.7	13,773
35,076.30	1,720,614	575	249	5.08	2.0	39,308.82	118	2,336.4	3,824
63,006.07	3,335,814	780	356	6.73	1.9	80,215.73	156	4,549.5	6,195
54,652.69	3,629,363	746	405	6.11	1.5	818,344.21	91	44,055.4	4,927
47,241.11	3,294,384	707	388	5.57	1.4	77,607.95	147	5,254.7	7,250
46,918.27	3,076,851	641	400	6.10	1.5	50,708.38	78	2,937.3	4,693
48,013.12	2,600,515	623	348	6.42	1.8	162,863.53	85	5,676.3	5,204
52,937.52	2,459,720	640	320	6.89	2.2	58,291.58	140	2,562.5	5,115
2,812,964.81	120,787,007	24,892	404	9.42	2.3	3,150,539.33	4,219	137,172.0	178,897
176,993.99	4,388,904	1,201	304	12.28	4.0	472,037.10	942	15,569.0	2,785
30,114.92	1,696,427	433	326	5.80	1.8	63,965.52	78	3,154.0	2,758
244,324.22	13,978,655	2,290	509	8.89	1.7	192,345.74	326	9,136.8	17,050
39,570.84	2,462,900	467	439	7.06	1.6	50,264.62	90	3,235.5	3,452

NOTE—The above group of 25 cities utilizes about 80 per cent of the power distributed by the Commission to Ontario municipalities.

†Includes only 25-cycle data.

of Population 2,000 or more

\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
4,011.46	86,965	80	91	4.18	4.6	5,064.93	15	160.3	385
7,312.97	311,102	135	192	4.51	2.4	6,040.57	15	215.8	787
7,125.42	319,140	130	205	4.57	2.2	4,909.02	12	248.7	767
30,472.73	1,465,001	347	352	7.32	2.1	15,869.41	43	924.5	2,240
.....	.....	174	.....	.....	.....	49,653.05	34	1,429.4	1,242
16,475.40	863,393	232	310	5.91	1.9	18,666.83	56	1,146.8	1,655
24,890.99	1,431,618	438	272	4.73	1.7	40,635.56	67	1,942.2	3,013
9,623.77	283,860	181	131	4.43	3.4	26,348.00	20	1,099.5	1,152
19,527.99	617,789	249	207	6.53	3.2	30,117.19	41	1,393.6	1,440
10,759.87	465,120	265	146	3.38	2.3	23,605.68	54	1,371.4	1,732
11,804.96	590,213	199	247	4.94	2.0	19,312.23	38	1,306.0	1,441
11,581.89	519,688	196	221	4.92	2.2	15,221.11	33	797.2	958

**STATEMENT**  
**Statistics Relating to the Supply of Electric Energy to Consumers**  
**For Domestic Service, for Commercial Light Service**  
**Group II—TOWNS**

Municipality	System	Popula- tion	Distance from nearest generating station supplying system	Domestic service					
				Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw.-hr.
			miles	\$ c.	kw.-hr.		kw.-hr.	\$ c.	cts.
Elmira.....	Nia.	2,761	107	16,408.91	833,397	501	139	2.73	2.0
Fergus.....	Nia.	2,585	94	15,488.79	572,346	610	78	2.11	2.7
Goderich.....	Nia.	4,324	167	29,003.83	1,209,813	1,169	86	2.07	2.4
Hanover.....	G.B.	3,102	35	19,145.73	782,334	712	91	2.24	2.4
Hespeler.....	Nia.	2,711	90	18,802.31	889,368	658	113	2.38	2.1
Huntsville.....	G.B.	2,946	26	11,876.98	454,200	565	67	1.75	2.6
Ingersoll.....	Nia.	5,000	104	32,219.41	1,840,860	1,312	117	2.05	1.8
Kincardine.....	G.B.	2,487	69	13,935.63	428,871	583	61	1.99	3.2
Kingsville.....	Nia.	2,245	255	12,429.74	387,632	702	46	1.48	3.2
Leamington.....	Nia.	4,912	263	24,796.90	996,960	1,315	63	1.57	2.5
Lindsay.....	E.O.	7,174	19	37,248.19	1,480,012	1,844	67	1.68	2.5
Listowel.....	Nia.	2,688	154	17,844.57	869,986	715	101	2.08	2.0
Meaford.....	G.B.	2,726	23	12,817.08	444,887	641	59	1.67	2.9
Merritton.....	Nia.	2,515	16	11,583.92	624,114	700	74	1.38	1.9
Midland.....	G.B.	7,802	25	35,890.02	2,257,282	1,540	122	1.94	1.6
Mimico.....	Nia.	6,422	75	55,887.61	3,390,775	1,745	162	2.67	1.6
Napanee.....	E.O.	2,981	19	27,638.04	1,164,236	754	129	2.95	2.4
New Toronto....	Nia.	6,437	76	34,424.55	2,058,626	1,428	120	2.01	1.7
Orangeville.....	G.B.	2,764	47	12,974.32	565,125	660	72	1.66	2.3
Paris.....	Nia.	4,263	76	24,635.93	1,390,042	1,056	110	1.94	1.8
Penetanguishene.	G.B.	3,870	29	10,694.19	520,855	560	78	1.59	2.1
Perth.....	E.O.	3,915	21	23,050.26	972,323	911	89	2.11	2.4
Petrolia.....	Nia.	2,431	231	11,406.60	452,121	679	55	1.40	2.5
Picton.....	E.O.	3,140	33	21,279.06	1,048,298	992	88	1.79	2.0
Port Colborne...	Nia.	6,494	21	28,498.60	1,058,415	1,222	72	1.94	2.7
Port Hope.....	E.O.	4,601	43	27,820.09	924,592	1,207	64	1.92	3.0
Prescott.....	E.O.	3,078	48	16,527.43	1,076,246	645	139	2.14	1.5
Preston.....	Nia.	6,173	86	44,740.49	2,545,882	1,548	137	2.41	1.8
Riverside.....	Nia.	5,125	243	39,734.22	2,027,533	1,102	153	3.00	2.0
St. Marys.....	Nia.	4,032	133	30,749.98	1,468,043	1,030	119	2.49	2.1
Sandwich.....	Nia.	11,408	245	86,747.73	5,582,846	2,302	202	3.14	1.6
Simcoe.....	Nia.	5,263	103	19,137.87	972,780	1,084	75	1.47	2.0
Smiths Falls.....	E.O.	7,486	38	42,842.78	1,713,935	1,679	85	2.13	2.5
Strathroy.....	Nia.	2,870	150	20,186.60	997,655	797	104	2.11	2.0
Tecumseh.....	Nia.	2,550	246	14,163.53	536,592	499	90	2.37	2.6
Thorold.....	Nia.	5,068	9	19,233.01	1,017,295	1,180	72	1.36	1.9
Tillsonburg.....	Nia.	3,287	116	14,747.42	711,971	873	68	1.41	2.1
Trenton.....	E.O.	6,288	1	30,633.23	1,025,265	1,191	72	2.14	2.9
Walkerton.....	G.B.	2,310	1	14,606.24	490,759	535	76	2.27	3.0
Walkerville.....	Nia.	11,351	239	102,105.01	6,841,071	2,468	231	3.45	1.5
Wallaceburg.....	Nia.	4,501	211	18,336.77	806,038	1,010	67	1.51	2.3
Waterloo.....	Nia.	8,550	96	58,917.14	3,692,990	1,852	166	2.65	1.6
Weston.....	Nia.	4,618	80	38,349.66	2,783,119	1,232	188	2.59	1.4
Whitby.....	E.O.	5,425	80	19,451.10	985,262	825	100	1.96	2.0
Wingham.....	G.B.	2,201	70	12,675.78	394,996	523	63	2.02	3.2

NOTE—The above group of 57 towns utilizes about 12 per cent of the power distributed by the Commission to Ontario municipalities.



## "D"—Continued

in Ontario Municipalities Served by the Commission  
and for Power Service during the Year 1932  
of Population, 2,000 or more

Commercial light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
5,522.87	192,006	122	131	3.77	2.9	4,820.80	18	422.8	641
7,198.65	179,521	113	132	5.31	4.0	10,235.41	15	377.9	738
13,430.86	476,608	242	164	4.62	2.8	15,455.99	18	687.0	1,429
6,690.48	233,249	119	163	4.69	2.9	17,623.94	19	675.6	850
5,484.50	216,641	105	172	4.35	2.5	33,079.50	28	1,689.2	791
7,075.02	299,386	124	201	4.75	2.4	14,746.37	10	889.6	699
15,484.06	816,557	249	273	5.18	1.9	24,704.23	45	1,279.0	1,606
6,721.08	204,686	113	151	4.96	3.3	7,030.97	19	323.4	715
6,732.34	258,852	173	125	3.24	2.6	3,950.07	14	157.6	889
14,322.56	681,890	249	228	4.79	2.1	16,077.93	26	598.7	1,590
23,206.87	1,017,559	333	255	5.81	2.3	26,706.81	76	1,407.2	2,253
8,503.19	344,088	153	187	4.63	2.5	13,206.76	22	566.7	890
6,551.13	214,219	135	132	4.04	3.1	4,259.99	15	208.4	791
2,274.63	126,978	60	176	3.16	1.8	63,547.92	11	2,765.9	771
14,078.91	774,383	225	287	5.21	1.8	57,567.16	58	4,773.3	1,823
9,412.69	486,770	136	299	5.77	1.9	8,468.11	14	434.2	1,895
14,849.83	448,595	189	198	6.55	3.3	12,010.57	35	567.0	978
12,232.83	816,361	167	407	6.10	1.5	111,116.56	28	5,040.0	1,805
7,716.99	345,268	159	180	4.04	2.2	8,171.44	27	380.7	846
8,570.76	429,205	180	199	3.97	2.0	13,685.37	25	814.0	1,261
4,435.64	197,484	99	166	3.73	2.2	11,328.52	26	507.2	685
14,999.87	516,560	188	229	6.65	2.9	16,065.74	25	692.8	1,124
6,379.26	243,067	167	121	3.18	2.6	21,742.26	53	697.7	899
11,866.75	483,027	198	203	4.99	2.4	9,429.50	42	492.3	1,232
12,601.87	437,369	228	160	4.60	2.9	13,913.37	21	488.8	1,471
11,786.88	380,068	212	149	4.63	3.1	22,385.62	45	950.4	1,464
8,973.05	482,649	160	251	4.67	1.9	5,158.31	21	328.6	826
17,012.71	809,061	233	289	6.08	2.1	35,914.82	51	2,100.0	1,832
4,978.35	183,669	50	306	8.30	2.7	10,228.28	8	330.5	1,160
9,399.75	429,410	194	184	4.03	2.2	19,161.18	41	947.3	1,265
17,751.29	880,401	198	371	7.47	2.0	12,838.00	27	697.3	2,527
24,353.79	1,311,861	306	357	6.32	1.9	16,455.10	38	1,091.3	1,428
16,416.27	644,240	263	204	5.20	2.5	19,811.34	45	800.9	1,987
10,600.21	442,704	170	217	5.20	2.4	10,401.54	27	542.0	994
3,018.22	94,591	50	158	5.03	3.2	2,473.94	4	92.7	553
6,480.51	440,555	190	193	2.84	1.5	30,898.42	15	1,711.7	1,385
12,767.44	629,175	228	230	4.67	2.0	10,579.99	32	637.2	1,133
19,642.80	597,336	228	218	7.18	3.3	64,484.60	49	2,209.4	1,468
8,291.19	266,630	121	184	5.71	3.1	4,773.16	16	177.7	672
31,822.21	1,390,039	321	361	8.26	2.3	139,568.63	96	6,953.6	2,885
10,345.93	436,678	223	163	3.87	2.4	44,617.59	29	1,760.4	1,262
21,678.50	1,031,271	250	344	7.23	2.1	29,276.56	65	1,808.6	2,167
9,498.51	504,000	174	241	4.55	1.9	32,110.89	29	176.0	1,435
9,790.33	389,192	152	213	5.37	2.5	16,523.63	16	643.4	993
7,142.32	197,756	154	107	3.86	3.6	8,718.38	25	378.6	702



## STATEMENT

**Statistics Relating to the Supply of Electric Energy to Consumers  
For Domestic Service, for Commercial Light Service**

**Group III—SMALL TOWNS (less than 2,000 population),**

NOTE—The power used in the smaller places and rural districts is, and possibly must always be, a relatively small proportion of the power distributed by the Commission. Thus, the power used by the small municipalities in the following group, which includes small towns, villages and certain suburban areas in townships, in less than 10 per cent of the power distributed by the Commission to Ontario municipalities. This relatively small proportion of the total power,

Municipality	System	Popula- tion	Distance from nearest generating station supplying system	Domestic service					
				Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	\$ c.	kw-hr.		kw-hr.	\$ c.	cts.
Acton.....	Nia.	1,930	91	10,037.45	534,395	481	93	1.74	1.9
Agincourt.....	Nia.	P.V.	93	4,976.86	171,682	141	101	2.94	2.9
Ailsa Craig.....	Nia.	498	148	2,511.55	72,393	128	47	1.64	3.5
Alliston.....	G.B.	1,367	74	8,829.32	236,950	352	56	2.09	3.7
Alvinston.....	Nia	677	267	4,468.52	62,526	159	33	2.34	7.1
Ancaster Twp....	Nia.	3,468	59	8,788.44	395,950	269	123	2.72	2.2
Apple Hill.....	E.O.	P.V.	19	968.87	15,150	41	31	1.97	6.4
Arkona.....	Nia.	397	250	2,604.53	53,321	96	46	2.26	4.9
Arthur.....	G.B.	993	63	4,625.59	87,562	178	41	2.17	5.3
Athens.....	E.O.	666	75	4,271.94	82,186	138	50	2.58	5.2
Ayr.....	Nia.	806	84	4,769.78	211,941	200	88	1.99	2.3
Baden.....	Nia.	P.V.	103	3,643.54	183,976	136	113	2.23	2.0
Bath*.....	E.O.	343	32	1,407.01	23,634	31	63	3.78	6.0
Beachville.....	Nia.	P.V.	101	2,875.09	111,387	128	74	1.91	2.6
Beaverton.....	G.B.	931	28	7,101.87	265,369	289	77	2.05	2.7
Beeton.....	G.B.	552	80	3,658.83	71,877	122	49	2.50	5.1
Belle River.....	Nia.	734	250	3,730.65	111,975	191	49	1.63	3.3
Blenheim.....	Nia.	1,613	202	8,539.11	295,478	495	51	1.46	2.9
Bloomfield.....	E.O.	637	29	2,783.26	98,247	150	55	1.55	2.8
Blyth.....	Nia.	610	161	3,830.43	91,868	162	47	1.97	4.1
Bolton.....	Nia.	582	98	3,164.98	111,354	159	58	1.66	2.8
Bothwell.....	Nia.	653	217	2,636.08	91,770	170	45	1.29	2.9
Bradford.....	G.B.	964	74	6,164.08	154,798	213	61	2.41	4.0
Brantford Twp..	Nia.	.....	79	18,886.13	822,845	753	91	2.09	2.3
Brechin.....	G.B.	P.V.	18	1,039.57	19,355	43	38	2.01	5.4
Bridgeport.....	Nia.	P.V.	98	3,662.83	164,634	114	120	2.68	2.2
Brigden.....	Nia.	P.V.	233	2,457.40	49,273	108	38	1.90	5.0
Brighton.....	E.O.	1,431	12	10,079.43	195,526	403	40	2.08	5.2
Brussels.....	Nia.	726	159	5,448.47	138,860	220	53	2.06	3.9
Burford.....	Nia.	P.V.	83	4,481.37	201,088	188	89	1.99	2.2
Burgessville....	Nia.	P.V.	116	1,257.47	36,290	54	56	1.94	3.5
Caledonia.....	Nia.	1,400	65	5,443.78	166,732	326	43	1.39	3.3
Campbellville....	Nia.	P.V.	96	1,316.91	27,232	42	54	2.61	4.8
Cannington.....	G.B.	856	36	5,012.57	166,724	243	57	1.72	3.0
Cardinal.....	E.O.	1,304	38	5,871.96	156,556	275	47	1.78	3.8

\*13 months' operation

## "D"—Continued

in Ontario Municipalities Served by the Commission  
and for Power Service during the Year 1932

## VILLAGES AND SUBURBAN AREAS

however, exerts upon the economic life of the Province a most beneficial influence. It should further be appreciated that about 35 per cent of these municipalities obtain their power, not from Niagara, but from relatively small water-power developments throughout the Province. The net cost per kilowatt-hour given in the table is the cost inclusive of all charges. Consult also introduction to Statement "D," page 380.

Commercial light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
\$ c.	kw-hr.		kw-hr.	\$ c. cents		\$ c.			
3,846.04	182,496	82	185	3.91	2.1	16,502.03	17	696.2	580
1,131.69	26,006	23	94	4.10	4.4	1,515.05	3	70.0	167
1,501.39	41,402	38	91	3.29	3.6	3,066.68	2	106.9	168
4,530.56	94,125	103	76	3.67	4.8	2,953.00	16	150.0	471
2,764.10	42,844	51	70	4.52	6.4	467.13	2	15.2	212
1,986.58	97,227	41	198	4.04	2.0	855.11	5	42.0	315
842.28	15,649	18	72	3.90	5.4	275.06	1	10.0	60
1,693.54	36,494	36	84	3.92	4.6	987.58	3	27.5	135
3,690.53	65,313	75	73	4.10	5.7	1,806.55	4	59.0	257
1,902.97	34,003	49	58	3.24	6.0	1,053.84	1	36.0	188
1,693.41	69,066	45	128	3.14	2.5	470.00	3	20.1	248
1,564.54	63,780	25	213	5.22	2.5	5,029.47	3	200.7	164
992.59	14,941	16	78	5.17	6.6	.....	.....	.....	47
840.07	26,634	23	96	3.04	3.2	9,137.61	4	415.6	155
2,468.24	109,966	64	143	3.21	2.2	2,073.01	10	97.3	363
2,589.06	50,261	39	107	5.53	5.2	2,604.02	6	92.6	167
2,173.98	56,484	55	86	3.29	3.8	1,453.51	4	50.5	250
6,523.05	340,496	126	225	4.31	1.9	5,472.90	12	218.8	633
842.75	26,344	26	84	2.70	3.2	877.96	4	39.1	180
1,805.95	41,987	51	69	2.95	4.3	806.71	4	42.0	217
949.11	34,271	39	73	2.03	2.8	1,732.07	9	70.4	207
1,330.35	52,455	51	86	2.17	2.5	1,025.61	6	77.0	227
3,379.21	71,921	64	94	4.40	4.7	3,354.47	8	175.8	285
3,861.02	190,935	45	354	7.15	2.0	4,401.51	5	192.3	803
942.21	23,381	41	48	1.92	4.0	1,060.85	4	38.0	88
1,039.46	33,096	20	138	4.33	3.1	654.69	4	32.4	138
1,908.38	45,778	41	93	3.88	4.2	922.26	4	32.8	153
4,666.98	126,195	104	101	3.74	3.7	2,969.33	8	155.0	515
2,702.08	62,753	65	80	3.46	4.3	719.07	2	24.1	287
950.37	46,085	33	116	2.40	2.1	1,480.59	4	69.7	225
533.79	13,770	21	55	2.12	3.9	1,066.75	3	42.1	78
4,665.35	161,874	90	150	4.32	2.9	2,320.15	7	86.6	423
465.48	12,518	8	130	4.85	3.7	.....	.....	.....	50
2,453.03	80,843	69	98	2.96	3.0	635.87	12	36.3	324
1,844.85	49,396	52	79	2.96	3.7	559.14	2	17.0	329

## STATEMENT

**Statistics Relating to the Supply of Electric Energy to Consumers  
For Domestic Service, for Commercial Light Service**

**Group III—SMALL TOWNS (less than 2,000 population),**

Municipality	System	Population	Distance from nearest generating station supplying system	Domestic service					
				Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	\$ c.	kw-hr.		kw-hr.	\$ c.	cts.
Cayuga.....	Nia.	660	82	3,235.95	83,408	118	59	2.29	3.9
Chatsworth.....	G.B.	263	23	1,362.79	27,179	70	32	1.62	5.0
Chesley.....	G.B.	1,804	46	8,684.71	313,905	427	61	1.69	2.8
Chesterville.....	E.O.	912	44	5,467.65	231,016	228	84	2.00	2.4
Chippawa.....	Nia.	1,243	4	7,120.10	545,502	282	161	2.10	1.3
Clifford.....	Nia.	515	173	2,319.73	45,722	107	36	1.81	5.1
Clinton.....	Nia.	1,873	155	11,900.80	490,399	514	80	1.93	2.4
Coldwater.....	G.B.	641	17	2,852.51	128,441	137	78	1.74	2.2
Comber.....	Nia.	P.V.	216	2,459.02	66,824	98	57	2.09	3.7
Cookstown.....	G.B.	P.V.	65	2,279.66	30,533	105	24	1.81	7.5
Cottam.....	Nia.	P.V.	257	2,611.33	60,412	103	49	2.11	4.3
Courtright.....	Nia.	353	215	1,773.94	28,923	55	44	2.69	6.1
Creemore.....	G.B.	606	60	2,725.15	82,957	153	45	1.48	3.3
Dashwood.....	Nia.	P.V.	163	1,829.01	45,605	66	58	2.31	4.0
Delaware.....	Nia.	P.V.	137	1,338.99	25,335	53	40	2.11	5.3
Deseronto.....	E.O.	1,356	32	7,061.64	121,898	295	34	1.99	5.8
Dorchester.....	Nia.	P.V.	129	2,579.49	96,739	126	64	1.71	2.7
Drayton.....	Nia.	552	169	3,042.64	98,977	154	54	1.65	3.1
Dresden.....	Nia.	1,451	210	6,152.73	216,977	372	49	1.38	2.8
Drumbo.....	Nia.	P.V.	90	2,132.56	70,696	83	71	2.14	3.0
Dublin.....	Nia.	P.V.	140	1,341.55	27,400	42	54	2.66	4.9
Dundalk.....	G.B.	655	18	2,584.72	74,288	160	39	1.35	3.5
Durham.....	G.B.	1,779	23	6,259.06	250,815	408	51	1.28	2.5
Dutton.....	Nia.	785	152	3,597.40	148,939	204	61	1.47	2.4
Elmvale.....	G.B.	P.V.	32	2,664.97	88,479	151	49	1.47	3.0
Elmwood.....	G.B.	P.V.	40	1,114.90	18,316	56	27	1.66	6.1
Elora.....	Nia.	1,317	94	7,433.89	292,015	314	77	1.97	2.5
Embro.....	Nia.	437	107	2,767.51	78,840	98	67	2.35	3.5
Erieau.....	Nia.	260	210	3,773.37	88,332	156	47	2.02	4.3
Erie Beach.....	Nia.	20	209	1,532.87	18,821	62	25	2.06	8.1
Essex.....	Nia.	1,888	254	8,276.85	313,571	435	60	1.59	2.6
Etobicoke Twp...	Nia.	12,276	73	89,959.94	5,091,918	3,001	141	2.40	1.8
Exeter.....	Nia.	1,622	155	11,747.51	499,812	452	92	2.17	2.4
Finch.....	E.O.	358	53	2,066.11	39,381	76	43	2.27	5.2
Flesherton.....	G.B.	462	7	2,613.29	80,902	138	49	1.58	3.2
Fonthill.....	Nia.	833	25	4,995.94	185,936	193	80	2.16	2.7
Forest.....	Nia.	1,425	256	10,790.20	393,860	461	71	1.95	2.7
Georgetown.....	Nia.	2,187	100	13,898.39	805,318	666	101	1.74	1.7
Glencoe.....	Nia.	767	229	5,625.60	180,622	222	68	2.11	3.1
Grand Valley....	G.B.	570	51	3,530.97	70,720	153	39	1.92	5.0

## "D"—Continued

in Ontario Municipalities Served by the Commission  
and for Power Service during the Year 1932

## VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
2,594.46	68,928	54	106	4.00	3.8	1,444.69	4	39.0	176
1,217.78	26,002	24	90	4.23	4.7	.....	.....	.....	94
4,226.90	166,614	107	130	3.29	2.5	9,304.16	21	358.6	555
2,348.57	66,169	62	89	3.16	3.5	2,314.30	3	81.6	293
1,296.81	67,627	36	157	3.00	1.9	1,620.38	7	54.5	325
1,678.52	38,181	41	78	3.41	4.4	126.44	1	5.0	149
6,085.53	190,254	134	118	3.78	3.2	5,399.24	15	222.7	663
1,605.84	60,546	54	93	2.48	2.7	4,227.24	3	202.2	194
2,427.19	64,511	49	110	4.13	3.8	2,919.95	3	77.2	150
1,366.48	20,146	32	52	3.56	6.8	889.30	4	41.3	141
1,525.83	48,821	30	136	4.24	3.1	630.70	1	18.3	134
1,005.87	16,529	23	60	3.64	6.1	867.37	2	14.5	80
1,901.19	61,177	52	98	3.05	3.1	1,478.67	4	56.6	209
963.88	17,281	26	55	3.09	5.6	1,118.61	1	35.6	93
709.57	18,215	16	95	3.70	3.9	.....	.....	.....	69
2,756.63	46,322	68	57	3.38	6.0	2,572.82	12	109.5	375
862.89	27,064	28	81	2.57	3.2	285.28	1	22.3	155
1,849.18	47,630	55	72	2.80	3.9	1,192.08	5	51.7	214
5,256.48	187,435	120	130	3.65	2.8	5,460.03	13	255.5	505
982.73	28,430	24	99	3.41	3.5	850.57	2	29.2	109
925.35	16,590	20	69	3.86	5.6	514.18	3	21.5	65
2,276.72	65,004	72	75	2.64	3.5	2,141.36	4	123.3	236
4,090.64	141,715	105	112	3.25	2.9	5,751.99	11	272.1	524
2,632.86	104,076	74	117	2.96	2.5	3,728.43	7	151.3	285
1,756.38	56,171	57	82	2.57	3.1	3,190.51	9	168.2	217
566.88	9,627	18	45	2.62	5.9	1,373.45	1	34.5	75
3,559.68	116,374	76	128	3.90	3.1	6,791.62	3	311.7	393
1,731.85	35,330	46	64	3.14	4.9	1,282.12	1	37.5	145
1,079.43	25,435	13	163	6.92	4.2	857.57	2	37.5	171
286.43	4,444	3	123	7.96	6.4	.....	.....	.....	65
5,655.04	209,484	106	165	4.45	2.7	6,041.62	15	250.3	556
16,742.13	848,948	247	286	5.65	2.0	14,724.91	26	794.8	3,274
5,010.52	148,816	119	104	3.51	3.4	4,887.74	10	217.4	581
1,789.11	30,233	33	76	4.52	5.9	708.99	1	15.9	110
1,706.59	37,601	50	63	2.84	4.5	98.47	2	4.1	190
960.76	39,343	27	121	2.97	2.4	544.28	4	23.7	224
5,107.63	119,375	133	75	3.20	4.3	5,417.45	21	183.3	615
5,686.35	318,812	121	220	3.92	1.8	21,991.27	25	1,050.6	812
3,408.41	93,600	82	95	3.46	3.6	3,165.91	6	106.0	310
2,494.77	57,665	49	98	4.24	4.3	1,362.92	3	59.2	205



## STATEMENT

**Statistics Relating to the Supply of Electric Energy to Consumers  
For Domestic Service, for Commercial Light Service**

**Group III—SMALL TOWNS (less than 2,000 population),**

Municipality	System	Popula- tion	Distance from nearest generating station supplying system	Domestic service					
				Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	\$ c.	kw-hr.		kw-hr.	\$ c.	cts.
Granton.....	Nia.	P.V.	147	1,850.91	69,571	82	71	1.88	2.7
Gravenhurst.....	G.B.	1,896	7	7,790.76	532,147	454	98	1.43	1.5
Hagersville.....	Nia.	1,285	75	4,945.37	243,420	305	67	1.35	2.0
Harriston.....	Nia.	1,301	167	7,649.31	239,907	331	60	1.93	3.2
Harrow.....	Nia.	907	267	8,738.71	415,879	242	143	3.01	2.1
Hastings.....	E.O.	653	15	4,723.55	72,167	157	38	2.51	6.5
Havelock.....	E.O.	1,082	25	6,539.86	149,410	279	45	1.95	4.4
Hensall.....	Nia.	745	161	4,139.83	148,009	181	68	1.91	2.8
Highgate.....	Nia.	334	217	1,899.23	47,278	98	40	1.61	4.0
Holstein.....	G.B.	P.V.	34	1,431.91	11,558	55	18	2.17	12.4
Humberstone....	Nia.	2,419	22	9,222.35	380,766	486	65	1.58	2.4
Jarvis.....	Nia.	482	81	2,273.18	55,960	116	40	1.63	4.1
Kemptville.....	E.O.	1,227	62	6,626.69	202,791	302	56	1.83	3.3
Kirkfield.....	G.B.	P.V.	35	775.61	11,937	30	33	2.15	6.5
Lakefield.....	E.O.	1,458	8	6,461.02	218,109	301	60	1.79	3.0
Lambeth.....	Nia.	P.V.	130	3,733.60	120,044	109	92	2.85	3.1
Lanark.....	E.O.	573	21	2,492.57	53,955	136	33	1.53	4.6
Lancaster.....	E.O.	590	25	2,051.56	31,408	77	34	2.22	6.5
La Salle.....	Nia.	609	248	7,714.49	314,056	199	131	3.23	2.5
Long Branch....	Nia.	3,537	73	23,730.14	1,194,250	1,019	98	1.94	2.0
London Twp....	Nia.	.....	128	10,836.52	539,605	318	141	2.84	2.0
Lucan.....	Nia.	547	141	5,022.45	189,914	174	91	2.41	2.6
Lucknow.....	G.B.	1,067	68	7,098.99	184,308	271	57	2.18	3.9
Lynden.....	Nia.	P.V.	62	2,006.59	71,550	82	73	2.04	2.8
Madoc.....	E.O.	1,071	25	4,780.70	114,239	242	39	1.65	4.2
Markdale.....	G.B.	819	7	3,608.51	122,155	187	54	1.61	3.0
Markham.....	Nia.	1,001	114	6,525.34	213,075	274	65	1.98	3.1
Marmora.....	E.O.	973	20	3,602.77	64,728	197	27	1.52	5.6
Martintown.....	E.O.	P.V.	14	810.16	11,552	33	29	2.05	7.0
Maxville.....	E.O.	747	26	3,144.26	46,220	129	30	2.03	6.8
Merlin.....	Nia.	P.V.	219	2,277.52	49,906	106	39	1.79	4.6
Milton.....	Nia.	1,825	88	11,477.39	493,416	465	88	2.06	2.3
Milverton.....	Nia.	1,064	139	5,625.34	259,303	227	95	2.06	2.2
Mitchell.....	Nia.	1,609	135	10,861.65	516,577	426	101	2.12	2.1
Moorefield.....	Nia.	P.V.	168	928.00	18,633	55	28	1.41	5.0
Mt. Brydges....	Nia.	P.V.	141	2,892.63	105,005	130	67	1.85	2.8
Mt. Forest.....	G.B.	1,914	38	7,307.96	333,060	434	64	1.40	2.2
Neustadt.....	G.B.	448	40	2,215.42	23,388	96	20	1.92	9.5
Newbury.....	Nia.	312	223	1,296.42	26,522	62	36	1.74	4.9
New Hamburg...	Nia.	1,462	106	10,630.73	485,166	347	117	2.55	2.2

## "D"—Continued

in Ontario Municipalities Served by the Commission  
and for Power Service during the Year 1932

## VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
995.19	34,082	31	92	2.68	2.9	880.92	1	39.4	114
5,989.79	352,120	115	255	4.34	1.7	7,817.36	13	426.9	582
4,705.53	260,564	102	213	3.84	1.8	19,130.75	16	1,120.2	423
4,725.11	138,711	100	116	3.94	3.4	5,644.74	13	253.8	444
4,359.48	151,760	76	166	4.78	2.9	5,169.54	5	231.7	323
1,938.40	24,177	48	42	3.37	8.0	785.97	5	23.9	210
2,116.63	45,401	62	61	2.84	4.7	5,151.18	3	160.0	344
1,986.89	54,417	58	78	2.85	3.7	2,899.27	13	112.0	252
993.79	21,990	35	52	2.37	4.5	1,314.85	6	61.4	139
608.13	5,484	17	27	2.98	11.1	248.41	1	7.5	73
2,802.69	157,255	65	202	3.59	1.8	2,819.52	7	99.7	558
2,040.79	67,434	41	137	4.15	3.0	4,538.87	4	152.4	161
4,175.05	136,884	80	143	4.35	3.1	4,744.04	6	187.7	388
950.76	23,934	18	111	4.40	4.4	205.40	1	20.0	49
3,905.32	156,142	71	183	4.58	2.5	2,247.44	9	152.0	381
1,557.94	45,472	26	146	4.99	3.4	479.51	2	22.5	137
1,157.53	27,096	36	63	2.68	4.3	17.01	1	2.0	173
1,743.75	24,455	40	51	3.63	7.1	.....	.....	.....	117
2,151.97	85,550	25	285	7.17	2.5	2,818.29	5	105.9	229
5,465.06	302,706	104	243	4.38	1.8	1,958.48	4	96.3	1,127
2,353.85	110,771	20	462	9.81	2.1	1,410.34	3	47.0	341
1,770.44	45,655	44	86	3.88	3.9	951.78	7	47.4	225
2,956.21	65,305	87	63	2.83	4.5	3,577.05	6	98.6	364
835.43	33,316	20	139	3.48	2.5	809.96	1	36.1	103
3,301.76	85,095	86	82	3.20	3.9	1,170.79	6	87.0	334
2,538.76	79,943	79	84	2.68	3.2	843.58	10	54.1	276
2,675.76	85,991	69	104	3.23	3.1	3,759.53	9	141.2	352
1,633.15	36,362	46	66	2.96	4.5	162.18	2	12.0	245
978.54	17,446	21	69	3.88	5.6	.....	.....	.....	54
2,212.26	37,156	39	79	4.73	6.0	160.41	1	3.4	169
1,709.85	41,110	42	80	3.39	4.2	2,184.51	2	69.4	150
5,465.18	225,312	106	177	4.30	2.4	14,055.71	20	593.1	591
2,726.53	84,321	72	98	3.14	3.2	4,848.43	8	263.5	307
4,497.52	182,876	109	140	3.44	2.5	5,016.01	23	260.5	558
723.73	12,320	29	35	2.08	5.9	1,316.10	2	43.7	86
1,027.96	25,761	40	54	2.14	4.0	922.86	3	33.0	173
5,154.42	221,690	141	131	3.05	2.3	4,501.73	11	231.7	586
1,215.97	14,652	29	42	3.49	8.3	87.63	2	3.0	127
1,076.74	22,109	27	68	3.32	4.9	843.97	2	36.1	91
4,120.58	154,624	92	140	3.73	2.7	4,036.33	13	206.2	452

## STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers  
For Domestic Service, for Commercial Light Service

## Group III—SMALL TOWNS (less than 2,000 population)

Municipality	System	Popu- lation	Distance from nearest generating station supplying system	Domestic service					
				Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	\$ c.	kw-hr.		kw-hr.	\$ c.	cts.
Niagara-on-the Lake.....	Nia.	1,657	13	14,446.79	725,608	466	130	2.58	2.0
Nipigon.....	T.B.	P.V.	14	2,508.73	.....	139	.....	.....	.....
Norwich.....	Nia.	1,071	110	8,160.12	402,526	349	96	1.95	2.0
Norwood.....	E.O.	742	10	5,040.45	116,610	217	44	1.93	4.3
Oil Springs.....	Nia.	448	226	1,693.00	43,084	74	49	1.91	3.9
Omeme.....	E.O.	457	15	2,245.18	39,163	126	26	1.48	5.7
Otterville.....	Nia.	P.V.	115	2,041.41	69,586	106	55	1.60	2.9
Paisley.....	G.B.	693	56	3,872.44	66,902	177	31	1.82	5.8
Palmerston.....	Nia.	1,750	161	10,572.35	493,232	398	103	2.21	2.1
Parkhill.....	Nia.	968	157	4,929.28	110,960	240	39	1.71	4.4
Plattsville.....	Nia.	P.V.	96	2,526.52	60,982	98	52	2.15	4.1
Point Edward....	Nia.	1,114	209	6,052.32	243,165	296	68	1.70	2.5
Port Credit.....	Nia.	1,600	69	12,416.24	737,060	399	154	2.59	1.7
Port Dalhousie....	Nia.	1,394	21	12,985.94	822,477	590	116	1.83	1.6
Port Dover.....	Nia.	1,584	108	8,019.11	260,286	464	47	1.44	3.1
Port Elgin.....	G.B.	1,300	6	7,949.99	205,311	365	47	1.82	3.9
Port McNicoll....	G.B.	875	21	3,622.82	78,319	184	35	1.64	4.6
Port Perry.....	G.B.	1,130	58	6,690.04	231,125	296	65	1.88	2.9
Port Rowan.....	Nia.	676	124	3,431.75	59,503	97	51	2.95	5.8
Port Stanley.....	Nia.	694	146	12,117.75	497,112	572	72	1.77	2.4
Priceville.....	G.B.	P.V.	12	653.82	7,732	32	20	1.70	8.5
Princeton.....	Nia.	P.V.	96	2,317.28	62,399	78	67	2.48	3.7
Queenston.....	Nia.	P.V.	7	2,669.09	120,424	65	154	3.42	2.2
Richmond.....	E.O.	376	19	1,603.27	39,808	50	66	2.67	4.0
Richmond Hill....	Nia.	1,235	103	7,425.30	358,071	331	90	1.87	2.1
Ridgetown.....	Nia.	1,990	211	9,433.23	400,424	550	61	1.43	2.4
Ripley.....	G.B.	409	69	3,309.93	47,031	122	32	2.26	7.0
Rockwood.....	Nia.	P.V.	87	3,076.71	134,515	144	78	1.78	2.3
Rodney.....	Nia.	738	163	3,393.12	105,780	198	46	1.43	3.2
Rosseau.....	G.B.	291	37	2,665.97	39,999	51	65	4.36	6.7
Russell.....	E.O.	P.V.	58	2,674.04	45,998	106	36	2.10	5.8
St. Clair Beach....	Nia.	114	247	2,154.10	88,889	48	154	3.74	2.4
St. George.....	Nia.	P.V.	82	2,777.28	154,935	133	97	1.74	1.8
St. Jacobs.....	Nia.	P.V.	102	3,581.79	189,842	104	152	2.87	1.9
Scarboro Twp....	Nia.	18,112	87	94,006.56	4,329,210	4,343	83	1.80	2.2
Seaforth.....	Nia.	1,688	147	10,759.68	518,196	485	89	1.85	2.1
Shelburne.....	G.B.	1,129	31	5,254.42	183,155	278	55	1.57	2.9
Southampton.....	G.B.	1,660	3	8,528.84	225,368	384	49	1.85	3.8
Springfield.....	Nia.	387	151	1,711.37	45,833	89	43	1.60	3.7
Stamford Twp....	Nia.	.....	2	51,865.70	3,169,985	1,654	160	2.61	1.6

## "D"—Continued

in Ontario Municipalities Served by the Commission  
and for Power Service during the Year 1932

## VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
3,707.03	178,763	74	201	4.17	2.1	2,455.46	10	88.5	550
1,913.03	.....	40	.....	.....	.....	553.59	2	17.0	181
3,139.55	116,040	86	112	3.04	2.7	2,089.87	7	103.2	442
2,725.70	53,172	68	65	3.34	5.1	888.79	2	30.9	287
1,078.61	29,718	26	95	3.46	3.6	7,936.25	32	206.7	132
1,433.52	32,410	48	56	2.49	4.4	476.78	6	27.1	180
1,736.94	53,398	43	103	3.37	3.3	643.09	4	28.7	153
2,601.90	70,656	51	115	4.25	3.7	1,185.39	4	52.7	232
5,017.80	206,201	102	168	4.10	2.4	6,375.40	10	363.4	510
3,088.29	72,230	75	80	3.43	4.3	1,494.32	5	66.8	320
1,075.00	29,768	24	103	3.73	3.6	575.88	1	20.9	123
1,786.59	61,174	43	119	3.46	2.9	16,966.50	10	673.0	349
4,754.90	237,010	75	263	5.28	2.0	1,894.91	5	102.2	479
2,498.83	139,392	58	200	3.59	1.8	4,316.92	10	231.3	658
4,944.95	164,954	130	106	3.17	3.0	5,832.62	12	221.1	606
4,432.53	106,555	84	106	4.40	4.2	4,382.20	7	199.8	456
736.93	14,180	28	42	2.19	5.2	.....	.....	.....	212
2,941.82	79,611	85	78	2.88	3.7	3,162.52	9	136.4	390
1,949.94	30,951	35	74	4.64	6.3	117.40	1	3.5	133
3,248.87	93,820	78	100	3.47	3.5	5,109.93	16	157.0	666
213.33	4,871	9	45	1.98	4.4	.....	.....	.....	41
689.89	18,446	19	81	3.03	3.7	3,026.47	3	85.1	100
264.46	9,701	10	81	2.20	2.7	765.67	1	22.6	76
1,592.47	44,592	25	148	5.31	3.6	.....	.....	.....	75
3,662.71	140,629	64	183	4.77	2.6	2,759.70	15	137.0	410
5,071.28	212,539	141	126	3.00	2.4	4,883.95	24	309.9	715
2,031.74	32,838	48	57	3.53	6.2	.....	.....	.....	170
1,010.10	37,502	35	89	2.40	2.7	293.69	2	13.0	181
3,164.78	89,309	71	105	3.71	3.5	1,842.26	7	95.1	276
934.28	8,043	21	32	3.71	11.6	.....	.....	.....	72
1,447.16	19,760	33	50	3.65	7.3	110.19	1	9.6	140
1,415.56	37,234	7	443	16.85	3.8	441.44	2	15.3	57
894.23	61,571	35	147	2.13	1.5	2,188.36	3	81.3	171
1,157.09	37,198	28	111	3.44	3.1	802.86	6	46.1	138
17,553.61	872,735	350	208	4.18	2.0	20,061.95	38	819.3	4,731
5,506.36	220,366	116	158	3.95	2.5	5,279.92	15	284.7	616
3,571.98	118,950	86	115	3.46	3.0	2,154.61	10	129.7	374
4,018.04	107,590	78	115	4.29	3.7	4,773.29	12	171.0	474
694.73	15,476	36	36	1.61	4.5	1,421.47	4	58.3	129
7,006.93	412,931	74	465	7.89	1.7	5,471.81	12	237.8	1,740



## STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers  
For Domestic Service, for Commercial Light Service

## Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Popula- tion	Distance from nearest generating station supplying system	Domestic service					
				Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost pe- kw-hr.
			miles	\$ c.	kw-hr.		kw-hr.	\$ c.	cts.
Stayner .....	G.B.	951	53	4,279.66	184,618	235	65	1.52	2.3
Stirling .....	E.O.	937	19	5,486.74	316,275	268	98	1.71	1.7
Stouffville .....	Nia.	1,117	110	7,278.39	235,237	327	60	1.85	3.1
Sunderland .....	G.B.	P.V.	44	2,137.72	41,634	112	31	1.59	5.1
Sutton .....	Nia.	805	114	8,156.87	199,109	385	43	1.77	4.1
Tara .....	G.B.	454	34	2,859.74	64,464	132	41	1.81	4.4
Tavistock .....	Nia.	995	129	7,320.11	370,340	260	119	2.35	2.0
Teeswater .....	G.B.	832	58	4,646.00	82,487	213	32	1.82	5.6
Thamesford .....	Nia.	P.V.	136	2,428.02	94,942	119	66	1.70	2.6
Thamesville .....	Nia.	786	207	3,947.55	144,921	218	55	1.51	2.7
Thedford .....	Nia.	515	268	2,923.17	51,278	129	33	1.89	5.7
Thorndale .....	Nia.	P.V.	136	1,394.97	34,823	62	47	1.87	4.0
Thornton .....	G.B.	P.V.	58	1,246.12	16,565	55	25	1.89	7.5
Tilbury .....	Nia.	1,929	209	7,083.69	272,361	428	53	1.38	2.6
Toronto Twp. ....	Nia.	.....	67	59,049.56	2,834,733	1,713	138	2.87	2.1
Tottenham .....	G.B.	575	82	3,022.89	53,988	117	38	2.15	5.6
Trafalgar Twp. No. 1 .....	Nia.	.....	.....	14,465.91	561,558	279	168	4.32	2.6
Trafalgar Twp. No. 2 .....	Nia.	.....	.....	5,856.62	199,864	132	126	3.70	2.9
Tweed .....	E.O.	1,247	41	6,741.31	131,912	270	40	2.06	5.1
Uxbridge .....	G.B.	1,591	60	8,037.95	278,258	348	66	1.92	2.9
Victoria Harbour.	G.B.	1,160	17	3,065.16	85,158	168	42	1.52	3.6
Wardsville .....	Nia.	182	225	1,125.21	19,969	52	32	1.80	5.6
Warkworth .....	E.O.	P.V.	17	2,165.50	37,907	97	33	1.86	5.7
Waterdown .....	Nia.	887	57	5,830.34	299,895	224	112	2.17	1.9
Waterford .....	Nia.	1,096	94	6,762.81	391,254	302	108	1.87	1.7
Watford .....	Nia.	915	256	6,754.27	194,790	280	58	2.01	3.5
Waubashene .....	G.B.	P.V.	12	1,982.88	74,080	123	50	1.34	2.7
Wellesley .....	Nia.	P.V.	111	2,751.98	76,909	110	58	2.08	3.6
Wellington .....	E.O.	904	22	4,708.55	194,036	282	57	1.39	2.4
West Lorne .....	Nia.	812	159	3,346.87	94,718	191	41	1.46	3.5
Westport* .....	E.O.	675	71	3,267.59	45,721	91	42	2.99	7.1
Wheatley .....	Nia.	765	279	4,817.06	134,877	184	61	2.18	3.6
Warton .....	G.B.	1,881	33	9,921.57	186,546	351	44	2.36	5.3
Williamsburg .....	E.O.	P.V.	28	2,567.12	92,947	75	103	2.85	2.8
Winchester .....	E.O.	980	38	6,019.53	287,708	274	87	1.83	2.1
Windermere .....	G.B.	124	22	2,195.19	25,460	42	51	4.36	8.6
Woodbridge .....	Nia.	786	85	5,916.60	273,711	229	100	2.15	2.2
Woodville .....	G.B.	417	40	2,225.05	59,195	107	46	1.73	3.8
Wyoming .....	Nia.	475	239	2,542.85	55,100	122	38	1.74	4.6
York, East, Twp.	Nia.	.....	86	174,276.29	9,474,125	8,535	93	1.70	1.8
York, North, Twp.	Nia.	.....	84	89,239.85	3,936,547	2,679	122	2.77	2.3
Zurich .....	Nia.	P.V.	168	3,199.76	89,905	121	62	2.20	3.6

\*12½ months' operation.

## "D"—Concluded

in Ontario Municipalities Served by the Commission  
and for Power Service during the Year 1932

## VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service			Total number of con- sumers
Revenue	Consumption	Number of con- sumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of con- sumers	Average monthly horse- power	
\$ c.	kw-hr.		kw-hr.	\$ c.	cents	\$ c.			
2,859.98	100,451	75	113	3.16	2.8	2,658.11	12	162.8	322
3,780.76	144,499	83	145	3.80	2.6	2,376.40	10	100.0	361
2,783.22	46,775	83	47	2.79	5.9	711.37	4	36.5	414
1,874.14	41,787	44	79	3.55	4.5	57.26	1	5.0	157
3,473.05	84,884	82	86	3.53	4.1	1,318.98	5	35.0	472
1,556.42	37,994	40	79	3.24	4.1	796.69	4	33.6	176
2,121.18	80,966	71	95	2.49	2.6	8,434.81	5	322.5	336
2,224.82	44,626	57	65	3.25	5.0	1,133.46	7	51.5	277
1,450.24	60,826	38	133	3.18	2.4	2,898.03	7	97.5	164
3,230.42	110,802	79	117	3.41	2.9	2,207.25	7	94.0	304
1,926.26	34,175	39	73	4.11	5.6	554.57	3	17.5	171
1,007.23	25,564	23	93	3.65	3.9	243.22	1	5.4	86
598.79	9,850	14	59	3.56	6.1	334.83	3	17.0	72
7,659.86	305,760	137	186	4.66	2.5	9,565.24	15	532.7	580
14,120.05	615,593	180	285	6.54	2.3	7,181.69	23	340.0	1,916
2,350.50	30,815	51	50	3.84	7.6	284.98	4	14.3	172
632.39	15,400	2	642	26.35	4.1	554.08	12	31.8	293
5,054.98	96,843	91	88	4.62	5.2	3,685.37	12	118.3	132
3,560.66	93,985	95	82	3.12	3.8	917.33	11	66.5	373
818.98	29,618	27	91	2.53	2.8	169.72	2	6.0	197
1,163.68	15,083	23	55	4.22	7.7				75
1,603.69	31,744	43	62	3.11	5.1				140
1,740.68	77,432	36	179	4.03	2.2	2,274.39	7	105.2	267
1,807.72	108,735	70	129	2.15	1.7	4,013.18	10	233.0	382
3,408.05	90,340	79	95	3.59	3.8	2,977.20	5	101.3	364
546.05	25,879	22	98	2.07	2.1	573.53	4	22.5	149
1,129.38	29,550	39	63	2.41	3.8	1,717.36	6	115.5	155
2,125.74	66,880	62	90	2.86	3.2	2,316.67	6	87.7	350
1,567.00	55,005	53	86	2.46	2.8	1,758.02	3	73.6	247
3,150.56	37,311	47	66	5.59	8.4				138
2,888.15	74,856	56	111	4.30	3.9	2,219.63	4	73.4	244
6,921.84	159,293	106	125	5.44	4.3	3,978.87	11	119.7	468
2,548.08	71,353	54	110	3.93	3.6	212.04	1	14.3	130
3,342.99	128,886	66	163	4.22	2.6	1,616.60	2	39.6	342
981.67	16,325	10	136	8.18	6.0				52
1,610.71	53,420	41	109	3.27	3.0	4,323.68	7	199.4	277
1,172.47	27,117	31	73	3.15	4.3	763.91	3	40.3	141
1,769.55	32,611	47	58	3.14	5.4	209.06	2	16.0	171
22,009.23	1,210,651	356	283	5.15	1.8	29,703.69	36	1,378.1	8,927
13,701.59	517,369	221	195	5.17	2.6	33,069.45	35	1,159.5	2,935
2,032.88	39,264	47	70	3.60	5.2				168

## STATEMENT "E"

### **Cost of Power to Municipalities and Rates to Consumers for Domestic Service—Commercial Light Service—Power Service in Urban Municipalities Served by the Hydro-Electric Power Commission for the Year 1932**

In Statement "E" are presented the rate schedules applicable to consumers for domestic service, for commercial light service and for power service in each of the co-operating municipalities receiving service at cost through the Hydro-Electric Power Commission.\* The cost per horsepower of the power supplied at wholesale by the Commission to the municipality, which is an important factor in determining the rates to consumers, is also stated.

#### **Cost of Power to Municipalities**

The figures of the first column in the table represented the total cost for the year of the power supplied by the Commission to the municipality, divided by the number of horsepower supplied. Details respecting these costs are given in the "Cost of Power" tables relating to the several systems, as presented in Section IX, and an explanation of the items making up the cost of power is given in the introduction to that Section.

#### **Rates to Consumers**

The Power Commission Act stipulates that "The rates chargeable by any municipal corporation generating or receiving and distributing electrical power or energy shall at all times be subject to the approval and control of the Commission." In accordance with the Act and in pursuance of its fundamental principle of providing service at cost, the Commission requires that accurate cost records be kept in each municipality, and exercises a continuous supervision over the rates charged to consumers.

From the commencement of its operations, the Commission introduced in the municipalities which it serves, scientifically-designed rate schedules for each of the three main classes into which the electrical service is usually divided, namely: residential or domestic service, commercial light service, and power service, and the schedules in use during the past year are presented in the tables of this statement.

\*Except townships served as parts of rural power districts, for which consult latter part of Section III.

*Domestic Service:* Domestic rates apply to electrical service in residences, for all household purposes, including lighting, cooking and the operation of all domestic appliances.

*Commercial Light Service:* Electrical energy used in stores, offices, churches, schools, public halls and institutions, hotels, public boarding-houses, and in all other premises for commercial purposes, including sign and display lighting, is billed at commercial lighting rates.

*Power Service:* The rate schedules given for power service in Statement "E" are those governing the supply of power at retail by each of the local municipal utilities. The average amount of power sold, per consumer, under these rates is approximately 40 horsepower—consult Statement "D." The Commission serves certain large power consumers direct on behalf of the various systems of municipalities.

The rates for power service, as given in the tables, are the rates for 24-hour unrestricted power at secondary distribution voltage. For service at primary distribution voltage the rates are usually five per cent lower than those stated. In municipalities where the load conditions and other circumstances permit, lower rates are available for 10-hour power, and for other forms of restricted service. For these classifications, discounts additional to those listed in the table are applicable.

The service charge relates to the connected load or to the maximum demand, as measured by a 10-minute average peak, where a demand meter is installed. The prompt payment discount of 10 per cent on the total monthly bill is given for settlement within 10 days.

Under the tabulation of rates for power service there is a column headed "Basis of rate 130 hours monthly use of demand." This column shows approximately the net annual amount payable for a demand of one horsepower, assuming a monthly use of 130 hours, which includes 30 hours' use each month at the third energy rate. Broadly, the figures in this column serve to indicate approximately the relative cost of power service in the different municipalities listed.



## STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for  
for the Year 1932, in Urban Municipalities**

Municipality  C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municip- ality on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Acton.....	33.03	33-66	60	2.2	1.1	0.83	10
Agincourt.....	37.32	33-66	50	4	2	1.11	10
Ailsa Craig.....	44.75	33-66	55	3.5	1.5	0.83	10
Alexandria.....T	64.06	33-66	60	5	2	1.11	10
Alliston.....	57.93	33-66	40	4.5	2	1.39	10
Alvinston.....	95.40	33-66	60	6	2	2.22	10
Amherstburg.....T	35.18	33-66	55	3	1.5	0.83	10
Ancaster twp.....	30.12	33-66	55	3	1.5	0.83	10
Apple Hill.....	51.70	33-66	60	6	2	1.66	10
Arkona.....	78.60	33-66	55	6	2	1.94	10
Arthur.....	88.01	33-66	40	6	2	1.67	10
Athens.....	60.07	33-66	40	6	2	2.22	10
Aylmer.....T	33.98	33-66	60	2.3	1.2	0.83	10
Ayr.....	32.22	33-66	55	3	1.25	1.11	10
Baden.....	32.17	33-66	60	2.5	1.25	0.83	10
Barrie.....T	34.61	33-66	60	2.5	1.25	0.83	10
Bath.....	90.83	33-66	40	6	2	3.33	10
Beachville.....	31.93	33-66	55	3	1.5	0.83	10
Beaverton.....	41.74	33-66	60	2.5	1.25	1.11	10
Beeton.....	74.96	33-66	35	7	2	1.67	10
Belle River.....	37.74	33-66	55	3.5	1.5	1.11	10
Belleville.....C	35.59	33-66	60	2.5	1.25	0.83	10
Blenheim.....	42.02	33-66	60	2.5	1.25	0.83	10
Bloomfield.....	58.83	33-66	50	3	1.5	0.83	10
Blyth.....	54.17	33-66	50	4	2	1.66	10
Bolton.....	42.21	33-66	55	3.2	1.6	1.11	10
Bothwell.....	51.26	33-66	60	2.5	1.25	0.83	10
Bowmanville.....T	38.75	33-33	60	4.5	2	0.83	10
Bradford.....	69.04	33-66	35	5.5	2	1.67	10
Brampton.....T	29.79	33-66	60	2	1	0.83	10
Brantford.....C	27.20	33-66	60	2	1	0.83	10
Brantford twp.....	30.88	33-66	60	2.5	1.25	1.11	10
Brechin.....	52.83	33-66	45	5	2	1.67	10
Bridgeport.....	34.16	33-66	55	3	1.5	0.83	10
Brigden.....	61.97	33-66	60	4	2	1.38	10
Brighton.....	43.43	33-66	60	5	2	1.11	10
Brockville.....T	31.35	33-66	50	2	1	0.83	10
Brussels.....	49.92	33-33	50	5	2	1.66	10
Burford.....	34.92	33-66	60	2.5	1.25	1.11	10
Burgessville.....	58.62	33-66	50	4	2	1.11	10

\*To distinguish them from the smaller municipalities and suburban districts the cities are indicated by a C and the towns of population 2,000 or more by a T; corresponding to the grouping in Statement "D."

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

“E”

Domestic Service—Commercial Light Service—Power Service  
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 1000 watts	First 100 hrs per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	2.2	0.6	0.83	10	25.00	1.00	2	1.3	0.33			10
5	4	1	1.11	10	32.00	1.00	3.1	2	0.33			10
5	3.5	0.75	0.83	10	32.00	1.00	3.1	2	0.33			10
5	5	1	1.66	10	40.00	1.00	4.3	2.8	0.33			10
5	4.5	1	1.39	10	35.00	1.00	3.5	2.3	0.33			10
7.5	6	1	2.22	10	59.00	1.00	7.1	4.7	0.33			10
5	3	0.75	0.83	10	35.00	1.00	3.5	2.3	0.33			10
5	3	0.75	0.83	10	31.00	1.00	2.9	1.9	0.33			10
5	6	1	2.22	10	55.00	1.00	6.5	4.3	0.33			10
7.5	6	1	1.94	10	55.00	1.00	6.5	4.3	0.33			10
5	6	1	1.67	10	50.00	1.00	5.7	3.8	0.33			10
5	6	1	2.22	10	60.00	1.00	7.2	4.8	0.33			10
5	2.3	0.6	0.83	10	26.00	1.00	2.2	1.4	0.33			10
5	3	0.75	1.11	10	38.00	1.00	4	2.6	0.33			10
5	2.5	0.75	0.83	10	26.00	1.00	2.2	1.4	0.33			10
5	2.5	1	0.83	10	18.00	1.00	1.9	1.2	0.33		25	10
5	6	1	3.33	10								
5	3	0.75	0.83	10	21.00	1.00	1.8	1.1	0.33		10	10
5	2.5	1	1.11	10	25.00	1.00	2	1.3	0.33			10
5	7	1	1.67	10	38.00	1.00	4	2.6	0.33			10
5	3.5	0.75	1.11	10	35.00	1.00	3.5	2.3	0.33			10
5	2.5	1	0.83	10	20.00	1.00	1.6	1	0.33		10	10
5	2.5	0.75	0.83	10	34.00	1.00	3.4	2.2	0.33			10
5	3	1	0.83	10	45.00	1.00	4.9	3.3	0.33			10
5	4	1	1.66	10	55.00	1.00	6.5	4.3	0.33			10
5	3.2	1	1.11	10	36.00	1.00	3.7	2.4	0.33			10
5	2.5	0.75	0.83	10	38.00	1.00	4	2.6	0.33			10
5	4.5	2	0.83	10	27.00	1.00	2.3	1.5	0.33			10
5	5.5	1	1.67	10	38.00	1.00	4	2.6	0.33			10
5	2	0.75	0.83	10	18.00	1.00	1.9	1.2	0.33		25	10
5	†3.5	0.35	0.83	10	23.00	1.00	2.1	1.4	0.33		10	10
5	††1.75											
5	2.5	0.75	1.11	10	24.00	1.00	2.3	1.5	0.33		10	10
5	5	1	1.67	10	45.00	1.00	4.9	3.3	0.33			10
5	3	0.75	0.83	10	32.00	1.00	3.1	2	0.33			10
5	4	1	1.38	10	48.00	1.00	5.4	3.6	0.33			10
5	5	1	1.11	10	30.00	1.00	2.8	1.8	0.33			10
5	2	0.75	0.83	10	20.00	1.00	1.6	1	0.33		10	10
5	5	1	1.66	10	50.00	1.00	5.7	3.8	0.33			10
5	2.5	0.75	1.11	10	35.00	1.00	3.5	2.3	0.33			10
5	4	1	1.11	10	35.00	1.00	3.5	2.3	0.33			10

†First 30 hours per kw-hr.  
††Next 70 hours per kw-hr.

## STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for  
for the Year 1932, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
C—City T—Town (pop. 2,000 or more)							
Caledonia.....	\$ c. 30.09	cents 33-66	60	cents 2.5	cents 1.25	\$ c. 0.83	% 10
Campbellville.....	58.61	33-66	40	6	2	2.22	10
Cannington.....	43.67	33-66	55	3	1.5	1.11	10
Cardinal.....	37.81	33-66	50	3.5	2	1.39	10
Carleton Place.....T	34.15	33-66	50	4	2	0.83	10
Cayuga.....	45.38	33-66	45	5	2	1.66	10
Chatham.....C	30.22	33-66	60	2.5	1.11	0.83	10
Chatsworth.....	46.96	33-66	40	5.5	2	1.67	10
Chesley.....	38.28	33-66	55	3	1.5	1.11	10
Chesterville.....	41.32	33-66	50	3	1.5	0.83	10
Chippawa.....	24.35	33-66	60	2.5	1.25	1.11	10
Clifford.....	58.71	33-66	50	5	2	1.66	10
Clinton.....	37.78	33-66	60	2.5	1.5	1.11	10
Cobourg.....T	38.30	33-66	50	4	2	0.83	10
Coldwater.....	36.75	33-66	55	2.5	1.25	1.11	10
Collingwood.....T	39.60	33-66	55	2.5	1	0.83	10
Comber.....	47.27	33-66	50	4	2	1.38	10
Cookstown.....	55.60	33-66	35	7	2	1.67	10
Cottam.....	43.44	33-66	50	4	2	1.66	10
Courtright.....	73.41	33-66	50	6	2	2.22	10
Creemore.....	53.81	33-66	50	4	2	1.11	10
Dashwood.....	48.41	33-66	45	5	2	1.11	10
Delaware.....	37.70	33-66	50	4	2	1.11	10
Deseronto.....	51.92	33-66	50	6	2	1.11	10
Dorchester.....	40.30	33-66	60	2.6	1.5	0.83	10
Drayton.....	57.96	33-66	55	3.5	1.5	1.11	10
Dresden.....	42.69	33-66	60	2.5	1.25	1.11	10
Drumbo.....	39.80	33-66	50	4	1.5	1.11	10
Dublin.....	56.52	33-66	60	6	2	1.67	10
Dundalk.....	41.52	33-66	55	3	1.5	1.11	10
Dundas.....T	26.13	33-66	60	2	1	0.83	10
Dunnville.....T	32.95	33-66	60	2.5	1.25	0.83	10
Durham.....	45.93	33-66	50	2.5	1.25	0.83	10
Dutton.....	34.87	33-66	60	2.4	1.2	0.83	10
East Windsor.....C	31.23	33-66	60	2.5	1	0.83	10
East York twp.....	31.35	33-66	60	2.2	1.2	0.83	10
Elmira.....T	33.28	33-66	60	3	1.25	0.83	10
Elmvale.....	41.65	33-66	55	3	1.5	0.83	10
Elmwood.....	44.36	33-66	45	5	2	1.39	10
Elora.....	35.12	33-66	55	3	1.5	1.11	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

## "E"—Continued

Domestic Service—Commercial Light Service—Power Service  
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 1000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	2.5	0.75	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	6	1	2.22	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	3	1	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	3.5	1	1.39	10	40.00	1.00	4.3	2.8	0.33	min. 3.33	.....	10
5	4	1	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	5	1	1.66	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	5.5	1	1.67	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	3	1	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	3	1	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2.5	0.75	1.11	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	5	1	1.66	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	2.5	1	1.11	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5	4	1	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.5	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2.5	1	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	4	1	1.38	10	36.00	1.00	3.7	2.4	0.33	.....	.....	10
5	7	1	1.67	10	43.00	1.00	4.7	3.1	0.33	.....	.....	10
5	4	1	1.66	10	43.00	1.00	4.7	3.1	0.33	min 2.22	.....	10
7.5	6	1	2.22	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	4	1	1.11	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	5	1	1.11	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	4	1	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	6	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2.6	1	0.83	10	34.00	1.00	3.4	2.2	0.33	.....	.....	10
5	3.5	0.75	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	2.5	0.75	1.11	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5	4	1	1.11	10	44.00	1.00	4.8	3.2	0.33	.....	.....	10
5	6	1	1.67	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2	0.6	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10
5	2.5	0.75	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	2.5	1	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	2.4	0.75	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.2	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	3	0.75	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	3	1	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	5	1	1.39	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	3	0.75	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10



## STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for  
for the Year 1932, in Urban Municipalities**

Municipality  C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to munici- pality on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Embro.....	43.65	33-66	55	3.5	2	1.67	10
Erieau.....	58.87	33-66	45	5	2	1.67	10
Erie Beach.....	69.59	33-66	50	7	2	1.94	10
Essex.....	34.55	33-66	55	3	1.25	0.83	10
Etobicoke twp.....	27.41	33-66	60	2.2	1.2	0.83	10
Exeter.....	36.94	33-66	55	3	1.5	0.83	10
Fergus.....	34.89	33-66	55	3	1.5	1.11	10
Finch.....	62.10	33-66	45	5	2	1.94	10
Flesherton.....	50.13	33-66	55	3.5	1.5	1.11	10
Fonthill.....	35.19	33-66	55	3	1.5	1.38	10
Forest.....	49.31	33-66	55	3.5	1.5	1.11	10
Fort William.....C	25.69	33-66	50	2.5	1	0.83	10
Galt.....C	27.43	33-66	60	2.5	1.25	0.83	10
Gamebridge.....	.....	33-66	45	5	2	1.67	10
Georgetown.....T	35.32	33-66	60	2.2	1.1	0.83	10
Glencoe.....	64.51	33-66	55	3.5	2	1.11	10
Glen Williams.....	.....	33-66	60	3	1.5	0.83	10
Goderich.....T	41.28	33-66	55	3	1.5	0.83	10
Grand Valley.....	64.88	33-66	45	5	2	1.39	10
Granton.....	52.78	33-66	55	3	1.5	1.11	10
Gravenhurst.....	28.01	33-66	60	2	1	0.83	10
Guelph.....C	27.62	33-33	60	2	1	0.83	10
Hagersville.....	30.85	33-66	60	2	1	0.83	10
Hamilton.....C	24.99	33-66	60	2	1	0.83	10
Hanover.....T	35.81	33-66	55	3	1.5	0.83	10
Harriston.....	43.25	33-66	55	4	1.5	1.11	10
Harrow.....	36.13	33-66	55	3	1.5	0.83	10
Hastings.....	51.99	33-66	50	6	2	2.22	10
Havelock.....	52.25	33-66	50	5	2	0.83	10
Hensall.....	49.23	33-66	55	3.5	1.5	1.11	10
Hespeler.....T	28.44	33-66	60	2.7	1.5	0.83	10
Highgate.....	50.15	33-66	50	4	2	1.11	10
Holstein.....	130.10	33-66	60	9	5	1.67	10
Hornings Mills.....	.....	33-66	30	8	2	1.67	10
Humberstone.....	28.33	33-66	60	2.5	1.25	0.83	10
Huntsville.....T	25.75	33-66	55	2.5	1.25	0.83	10
Ingersoll.....T	29.26	33-66	60	2	1.2	0.83	10
Jarvis.....	37.93	33-66	50	4	2	1.11	10
Kemptville.....	39.20	33-66	50	3.5	2	0.83	10
Kincardine.....T	56.56	33-66	40	4	2	1.11	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

“E”—Continued

Domestic Service—Commercial Light Service—Power Service  
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 1000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	3.5	1	1.67	10	42.00	1.00	4.6	3	0.33			10
5	5	1	1.67	10	50.00	1.00	5.7	3.8	0.33	min. 2.22		10
5	7	1	1.94	10	60.00	1.00	7.2	4.8	0.33			10
5	3	0.75	0.83	10	30.00	1.00	2.8	1.8	0.33			10
5	2.2	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33		10	10
5	3	0.75	0.83	10	30.00	1.00	2.8	1.8	0.33			10
5	3	1.5	1.11	10	31.00	1.00	2.9	1.9	0.33			10
5	5	1	2.50	10	50.00	1.00	5.7	3.8	0.33			10
5	3.5	1	1.11	10	40.00	1.00	4.3	2.8	0.33			10
5	3	0.75	1.38	10	32.00	1.00	3.1	2	0.33			10
5	3.5	0.75	1.11	10	42.00	1.00	4.6	3	0.33			10
5	2.5	1	0.83	10	22.00	1.00	1.75	1	0.1			10
5	2.5	0.6	0.83	10	20.00	1.00	1.6	1	0.33		10	10
5	5	1	1.67	10	45.00	1.00	4.9	3.3	0.33			10
5	2.2	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33		10	10
5	3.5	1	1.11	10	48.00	1.00	5.4	3.6	0.33			10
5	3	0.75	0.83	10	36.00	1.00	3.7	2.4	0.33			10
5	3	0.75	0.83	10	33.00	1.00	3.2	2.1	0.33			10
5	5	1	1.39	10	45.00	1.00	4.9	3.3	0.33			10
5	3	1	1.11	10	33.00	1.00	3.2	2.1	0.33			10
5	2	1	0.83	10	18.00	1.00	1.9	1.2	0.33		25	10
5	2	0.5	0.83	10	15.00	1.00	1.3	0.8	0.33		25	10
5	2	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33		10	10
	†3.5	0.35	0.83	10	20.00	1.00	1.67	1.11	0.133		10	10
5	††1.75											
5	3	1	0.83	10	26.00	1.00	2.2	1.4	0.33			10
5	4	1	1.11	10	32.00	1.00	3.1	2	0.33			10
5	3	1	0.83	10	34.00	1.00	3.4	2.2	0.33			10
5	6	2	2.22	10	45.00	1.00	4.9	3.3	0.33			10
5	5	1	0.83	10	35.00	1.00	3.5	2.3	0.33			10
5	3.5	1	1.11	10	35.00	1.00	3.5	2.3	0.33	min. 2.22		10
5	2.7	0.75	0.83	10	20.00	1.00	1.6	1	0.33		10	10
5	4	1	1.11	10	38.00	1.00	4	2.6	0.33			10
5	9	5	1.67	10	74.00	1.00	9.3	6.2	0.33			10
5	8	1	1.67	10	50.00	1.00	5.7	3.8	0.33			10
5	2.5	0.75	0.83	10	29.00	1.00	2.6	1.7	0.33			10
5	2.5	1	0.83	10	25.00	1.00	2	1.3	0.33			10
5	2	0.6	0.83	10	20.00	1.00	1.6	1	0.33		10	10
5	4	0.75	1.11	10	32.00	1.00	3.1	2	0.33			10
5	3.5	1	0.83	10	35.00	1.00	3.5	2.3	0.33			10
5	4	1	1.11	10	32.00	1.00	3.1	2	0.33			10

†First 30 hours per kw-hr.  
††Next 70 hours per kw-hr.

## STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for  
for the Year 1932, in Urban Municipalities**

Municipality  C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municipal- ity on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Kingston.....C	24.00-36.00	33-66	50	2	1	0.83	10
Kingsville.....T	36.58	33-66	55	3	1.25	0.83	10
Kirkfield.....	67.53	33-66	40	6	2	2.22	10
Kitchener.....C	26.90	33-66	60	2	1.2	0.83	10
Lakefield.....	51.31	33-66	50	3	2	0.83	10
Lambeth.....	39.62	33-66	50	4	2	1.11	10
Lanark.....	47.51	33-66	50	4	2	0.83	10
Lancaster.....	96.34	33-66	60	6	2	1.94	10
LaSalle.....	34.71	33-66	50	3.8	1.8	1.11	10
Leamington.....T	35.25	33-66	55	2.6	1.25	0.83	10
Leaside.....	.....	*3	..	**2	1.5	0.83	10
Lindsay.....T	43.80	33-66	40	3	1.5	0.83	10
Listowel.....T	35.80	33-66	60	2.5	1.25	1.11	10
London.....C	25.95	33-66	60	2	1	0.83	10
London twp.....	32.34	33-66	55	3	1.5	1.11	10
Long Branch.....T	30.04	33-66	60	2.2	1.2	0.83	10
Lucan.....	35.76	33-66	55	3.5	1.5	1.11	10
Lucknow.....	63.73	33-66	45	4.5	2	1.67	10
Lynden.....	36.04	33-66	55	3.5	1.5	1.38	10
Madoc.....	47.15	33-66	50	4	2	0.83	10
Markdale.....	39.67	33-66	55	3	1.5	1.11	10
Markham.....	40.75	33-66	55	3.5	1.5	1.11	10
Marmora.....	50.34	33-66	60	5	2	1.11	10
Martintown.....	54.01	33-66	40	6	2	1.66	10
Maxville.....	58.40	33-66	60	6	2	1.66	10
Meaford.....T	45.36	33-66	55	3	1.5	0.83	10
Merlin.....	48.18	33-66	50	4.5	2	1.11	10
Merritton.....T	23.10	33-66	60	2	1	0.83	10
Midland.....T	33.25	33-66	60	2	1	0.83	10
Milton.....	34.10	33-66	55	3	1.5	0.83	10
Milverton.....	34.86	33-66	60	3	1.5	1.11	10
Mimico.....T	25.93	33-66	60	2.4	1.2	0.83	10
Mitchell.....	32.60	33-33	60	2.5	1.5	0.83	10
Moorefield.....	62.02	33-66	50	4.5	2	1.39	10
Mount Brydges.....	38.84	33-66	55	3	1.5	1.11	10
Mount Forest.....	54.63	33-66	60	2.25	1.25	0.83	10
Napanee.....T	37.22	33-66	50	4	2	0.83	10
Neustadt.....	111.03	33-66	60	8	2	1.67	10
Newbury.....	58.61	33-66	45	5	2	1.38	10
New Hamburg.....	33.42	33-66	60	3	1.5	0.83	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

\*Service charge per 100 sq. ft.

\*\*Per kw-hr. for first 3 kw-hr. per 100 sq. ft.

## "E"—Continued

Domestic Service—Commercial Light Service—Power Service  
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 1000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	2	0.75	0.83	10	20.00	1.00	1.5	1	0.33	.....	10	10
5	3	0.75	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	6	1	2.22	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	2	0.75	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10
5	3	1	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	4	1	1.11	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	4	1	1.11	10	60.00	1.00	7.2	4.8	0.33	.....	.....	10
5	6	1	2.78	10	69.00	1.00	8.6	5.7	0.33	.....	.....	10
5	3.8	1	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	2.6	0.75	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
.....	†4 & 2	1	0.83	10	23.28	1.00	1.8	1.1	0.33	.....	.....	10
5	3	1	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5.4	2.5	0.75	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	2	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	3	0.75	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2.2	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	3.5	0.75	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	4.5	1	1.67	10	43.00	1.00	4.7	3.1	0.33	.....	.....	10
5	3.5	1.5	0.83	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	4	1	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	3.5	1	1.11	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	5	1	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	6	1	2.22	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	6	1	2.22	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	3	1	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	4.5	1	1.11	10	37.00	1.00	3.8	2.5	0.33	min. 2.22	.....	10
5	2	0.75	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	2	1	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5	3	0.75	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	3	1	1.11	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	2.4	0.6	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	2.5	0.75	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	4.5	1	1.11	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	3	0.75	1.11	10	36.00	1.00	3.7	2.4	0.33	.....	.....	10
5	2.25	1	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	4	1	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	8	1	1.67	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	5	1	1.38	10	53.00	1.00	6.2	4.1	0.33	.....	.....	10
5	3	1	0.83	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10

†First 70 hours 4 cents per kw-hr.  
Next 70 hours 2 cents per kw-hr.



## STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for  
for the Year 1932, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
C—City T—Town (pop. 2,000 or more)							
	\$ c.	cents		cents	cents	\$ c.	%
New Toronto.....T	28.46	33-66	60	2	1.1	0.83	10
Niagara Falls.....C	20.91	33-66	60	2	1	0.83	10 & 10
Niagara-on-the-Lake.	26.88	33-66	60	2.2	1.25	0.83	10
Nipigon twp.....	22.80	33-66	55	3.5	1.25	to 1.11 1.39	10
North York twp.....	32.33	33-66	55	3	1.5	1.11	10
Norwich.....	34.67	33-66	60	2.5	1.25	0.83	10
Norwood.....	42.86	33-66	50	5	2	1.11	10
Oil Springs.....	44.56	33-66	50	4	2	1.11	10
Omeme.....		33-66	60	4	2	1.11	10
Orangeville.....T	47.99	33-66	60	2.5	1.25	1.11	10
Oshawa.....C	38.39	33-66	40	3.5	1.5	0.83	10
Ottawa.....C	14.77	33-66	60 60 1	2 2 1	0.5	0.83	10
Otterville.....	50.58	33-66	55	3	1.5	1.11	10
Owen Sound.....C	34.73	33-66	60	2	1	0.83	10
Paisley.....	66.28	33-66	45	5	2	1.67	10
Palmerston.....	38.44	33-66	60	2.7	1.5	1.11	10
Paris.....T	27.97	33-66	60	2	1	0.83	10
Parkhill.....	57.71	33-66	50	4.5	2	1.38	10
Penetanguishene...T	38.37	33-66	55	3	1.5	0.83	10
Perth.....T	32.35	33-66	55	3	1.25	0.83	10
Peterborough.....C	32.07	33-66	50	2.5	1.25	0.83	10
Petrolia.....T	39.43	33-66	60	2.5	1.25	0.83	10
Pictou.....T	46.86	33-66	60	2.5	1.25	0.83	10
Plattsville.....	51.94	33-66	45	5	2	1.66	10
Point Edward.....	37.09	33-66	55	3	1.5	0.83	10
Port Arthur.....C	25.11	33-66	30	2	1	0.83	10 & 10
Port Colborne.....T	28.61	33-66	60	2.5	1.25	0.83	10
Port Credit.....	32.68	33-66	60	2.2	1.2	0.83	10
Port Dalhousie.....	29.27	33-66	60	2.2	1.2	0.83	10
Port Dover.....	39.81	33-66	50	3	1.25	1.11	10
Port Elgin.....	41.26	33-66	40	4	2	1.39	10
Port Hope.....T	40.63	33-66	60	3.5	2	0.83	10
Port McNicoll.....	42.40	33-66	50	3.5	1.5	0.83	10
Port Perry.....	52.09	33-66	50	3.5	1.5	1.11	10
Port Rowan.....	60.59	33-66	60	6	2	1.66	10
Port Stanley.....	37.75	33-66	55	3	1.5	0.83	10
Prescott.....T	30.92	33-66	60	2	1	0.83	10
Preston.....T	27.14	33-66	60	2.5	1.25	0.83	10
Priceville.....	86.44	33-66	60	8	2	1.67	10
Princeton.....	46.17	33-66	50	3.5	2	1.66	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

“E”—Continued

Domestic Service—Commercial Light Service—Power Service  
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 1000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	2	0.6	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	2	0.35	0.83	15	15.00	1.00	1.3	0.8	0.33	.....	25	10
5	2.2	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	min. 2.00	.....	10
5	3.5	1	1.39	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	3	0.75	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	5	1	1.11	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	4	1	1.11	10	34.00	1.00	3.4	2.2	0.33	.....	.....	10
5	4	1	1.11	10	37.00	1.00	3.8	2.5	0.33	.....	.....	10
5	2.5	1.25	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	3.5	1	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
.....	†5	0.5	0.83	10	20.00	1.00	1.8	1.2	0.15	.....	15	10
5	††2.2	1	1.11	10	36.00	1.00	3.7	2.4	0.33	.....	.....	10
5	3	1	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	2	1	1.67	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	2.7	1	1.11	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	2	0.75	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	4.5	1	1.38	10	48.00	1.00	5.4	3.6	0.33	.....	.....	10
5	3	1	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	3	1	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.5	1	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	2.5	0.75	0.83	10	29.00	1.00	2.6	1.7	0.33	.....	.....	10
5	2.5	1	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	5	1	1.66	10	48.00	1.00	5.4	3.6	0.33	min. 2.00	.....	10
5	3	0.75	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5	2	0.5	0.83	10 & 10	22.00	1.00	1.75	1	1	.....	.....	10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	2.2	0.75	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	2.2	0.75	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	4	1	1.39	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	3.5	1	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	3.5	1	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	3.5	1	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	6	2	1.66	10	60.00	1.00	7.2	4.8	0.33	.....	.....	10
5	3	0.75	0.83	10	37.00	1.00	3.8	2.5	0.33	min. 1.11	.....	10
5	2	1	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	2.5	0.75	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10
5	8	1	1.67	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	3.5	1	1.66	10	42.00	1.00	4.6	3	0.33	.....	.....	10

†First 30 hours per kw-hr.

††Next 70 hours per kw-hr.

## STATEMENT

**Cost of Power to Municipalities and Rates to Consumers for  
for the Year 1932, in Urban Municipalities**

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse-power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
C—City T—Town (pop. 2,000 or more)							
	\$ c.	cents		cents	cents	\$ c.	%
Queenston.....	28.26	33-66	65	3	1.5	1.38	10
Richmond.....	52.47	33-66	35	6	2	1.95	10
Richmond Hill.....	34.15	33-66	60	2.5	1.25	0.83	10
Ridgetown.....	41.31	33-66	60	2.2	1.25	0.83	10
Ripley.....	82.50	33-66	50	7	2	1.67	10
Riverside.....T	32.38	33-66	55	3	1.25	0.83	10
Rockwood.....	39.86	33-66	60	2.5	1.25	1.11	10
Rodney.....	48.93	33-66	55	3	1.5	0.83	10
Rosseau.....	118.84	*33	..	8	2	*2.22	10
Russell.....	63.34	33-66	50	6	2	1.66	10
St. Catharines.....C	23.37	33-66	30-60	2	1	0.83	10
St. Clair Beach.....	37.40	33-66	55	4	1.5	1.66	10
St. George.....	42.08	33-66	60	2	1.25	0.83	10
St. Jacobs.....	32.15	33-66	60	3	1.5	1.11	10
St. Marys.....T	32.76	33-66	60	2.5	1.5	1.11	10
St. Thomas.....C	26.94	33-66	60	2	1	0.83	10
Sandwich.....T	31.81	33-66	60	2.5	1	0.83	10
Sarnia.....C	32.69	33-66	60	2.4	1.1	0.83	10
Scarboro twp.....	30.17	33-33	60	2.6	1.3	0.83	10
Seaforth.....	34.78	33-66	60	2.5	1.25	0.83	10
Shelburne.....	45.24	33-66	50	3	1.5	1.11	10
Simcoe.....T	30.88	33-66	60	2	1.25	0.83	10
Smiths Falls.....T	29.52	33-66	55	3	1.5	0.83	10
Southampton.....	40.25	33-66	40	4	2	1.39	10
Springfield.....	52.38	33-66	55	3.5	1.5	1.11	10
Stamford twp.....	21.36	33-66	60	2	1.2	0.83	10
Stayner.....	41.75	33-66	55	2.5	1.25	0.83	10
Stirling.....	32.87	33-66	45	2.5	1.25	0.83	10
Stouffville.....	44.26	33-66	55	3.5	1.5	1.11	10
Stratford.....C	28.43	33-66	60	2.3	1.25	0.83	10
Strathroy.....T	32.21	33-66	60	2.5	1.25	0.83	10
Sunderland.....	62.96	33-66	45	5	2	1.39	10
Sutton.....	52.37	33-66	50	4.5	2	1.11	10
Tara.....	49.30	33-66	40	4	2	1.11	10
Tavistock.....	37.34	33-66	60	2.5	1.25	0.83	10
Tecumseh.....T	35.38	33-66	55	3.5	1.5	1.11	10
Teeswater.....	61.03	33-66	60	5	2	1.67	10
Thamesford.....	39.21	33-66	60	2.5	1.5	1.11	10
Thamesville.....	41.76	33-66	55	3	1.25	0.83	10
Thedford.....	73.68	33-66	50	6	2	1.66	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

\*According to consumers' demand.

“E”—Continued

Domestic Service—Commercial Light Service—Power Service  
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 1000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	3	1	1.38	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	6	1	2.22	10	60.00	1.00	7.2	4.8	0.33	.....	.....	10
5	2.5	0.75	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	2.2	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	7	1	1.67	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	3	0.8	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	2.5	0.75	1.11	10	42.00	1.00	4.6	3	0.33	.....	.....	10
5	3	0.75	0.83	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	8	2	*2.22	10	58.00	1.00	6.9	4.6	0.33	.....	.....	10
5	6	1	2.22	10	56.00	1.00	6.6	4.4	0.33	.....	.....	10
.....	†3.5	0.35	0.83	10	17.00	1.00	1.67	1.13	0.16	.....	25	10
	††1.75											
5	4	1	1.66	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	2	0.75	0.83	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	3	1	1.11	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	2.5	0.75	1.11	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5	2	0.5	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.4	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
5	2.4	0.6	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.5	0.75	0.83	10	29.00	1.00	2.6	1.7	0.33	.....	.....	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2	0.75	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	3	1	0.83	10	26.00	1.00	2.2	1.4	0.33	.....	.....	10
5	4	1	1.39	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	3.5	1	1.11	10	42.00	1.00	4.6	3	0.33	.....	.....	10
5	2.25	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	2.5	1	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	2.5	1	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	3.5	1	1.11	10	43.00	1.00	4.7	3.1	0.33	.....	.....	10
5	2.3	0.75	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	2.5	0.75	0.83	10	27.00	1.00	2.3	1.5	0.33	.....	.....	10
5	5	1	1.39	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	4.5	1	1.11	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	4	1	1.11	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	2.5	0.75	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	3.5	0.8	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	5	1	1.67	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	2.5	0.75	1.11	10	31.00	1.00	2.9	1.9	0.33	.....	.....	10
5	3	0.75	0.83	10	32.00	1.00	3.1	2	0.33	.....	.....	10
7.5	6	1	1.66	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10

\*According to consumers' demand.

†First 30 hours per kw-hr.

††Next 70 hours per kw-hr.



# STATEMENT

## Cost of Power to Municipalities and Rates to Consumers for for the Year 1932, in Urban Municipalities

Municipality  C—City T—Town (pop. 2,000 or more)	Annual cost to the Commission on the works to serve electrical energy to municip- ality on a horse- power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	\$ c.	cents		cents	cents	\$ c.	%
Thorndale.....	63.84	33-66	50	4	2	1.38	10
Thornton.....	72.27	33-66	60	8	2	1.67	10
Thorold.....T	24.85	33-66	60	2	1	0.83	10
Tilbury.....	36.39	33-66	60	2.5	1.25	0.83	10
Tillsonburg.....T	33.70	33-66	60	2	1.2	0.83	10
Toronto.....C	25.85	*3	..	**2	1	0.83	10
Toronto twp.....	30.90	33-66	55	2.8	1.4	1.11	10
Tottenham.....	97.34	33-66	30	7	2	1.67	10
Trafalgar twp., Area 1	.....	55-	60	3.5	2	1.11	10
Trafalgar twp., Area 2	.....	66-88	55	3.5	2	1.38	10
Trenton.....T	29.66	33-66	50	3.5	1.5	0.83	10
Tweed.....	67.22	33-66	60	5.5	2	1.11	10
Uxbridge.....	54.29	33-66	50	3.5	1.5	1.11	10
Victoria Harbour.....	46.60	33-66	55	3	1.5	1.11	10
Walkerton.....T	36.68	33-66	50	3.5	2	1.11	10
Walkerville.....T	28.58	33-66	60	2.5	1	0.83	10
Wallaceburg.....T	36.22	33-66	60	2.5	1.2	0.83	10
Wardsville.....	66.38	33-66	40	6	2	1.66	10
Warkworth.....	54.25	33-66	50	5	2	1.55	10
Waterdown.....	30.99	33-66	60	2.5	1.25	0.83	10
Waterford.....	32.25	33-66	60	2	1	0.83	10
Waterloo.....T	27.45	33-66	60	2	1.25	0.83	10
Watford.....	54.74	33-66	50	4	2	1.11	10
Waubashene.....	41.62	33-66	55	2.5	1.25	1.11	10
Welland.....C	24.04	33-66	60	2.2	1.1	0.83	10
Wellesley.....	49.72	33-66	50	4	2	1.11	10
Wellington.....	46.80	33-66	50	2.5	1.25	0.83	10
West Lorne.....	39.38	33-66	55	3	2	1.11	10
Weston.....T	26.56	33-66	60	2	1	0.83	10
Westport.....	79.07	33-66	30	8	2	3.05	10
Wheatley.....	49.31	33-66	50	4	2	1.39	10
Whitby.....T	37.56	33-66	60	3	1.25	.94	20
Warton.....	68.76	33-66	40	6	2	1.67	10
Williamsburg.....	38.12	33-66	60	3	2	1.39	10
Windermere.....	76.33	§33	..	8	2	§2.22	10
Winchester.....	39.50	33-66	60	2.5	1.25	0.83	10
Windsor.....C	28.36	33-66	60	2.5	1	0.83	10
Wingham.....T	63.61	33-66	45	4	1.5	1.11	10
Woodbridge.....	34.32	33-66	55	3	1.5	0.83	10
Woodstock.....C	27.80	33-66	60	2	1	0.83	10
Woodville.....	58.35	33-66	50	4	2	1.11	10
Wyoming.....	62.84	33-66	50	4.5	2	1.38	10
York tp. (inc. Swansea and Forest Hill)...	.....	33-66	60	2	1.3	0.83	10
Zurich.....	59.09	33-66	50	4.5	2	1.38	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

\*Service charge per 100 sq. ft.

§According to consumers' demand.

\*\*Per kw-hr. for first 3 kw-hr. per 100 sq. ft.

“E”—Concluded

Domestic Service—Commercial Light Service—Power Service  
Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 1000 watts	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	\$ c.	%	\$ c.	\$ c.	cents	cents	cents	\$ c.	%	%
5	4	1	1.38	10	48.00	1.00	5.4	3.6	0.33	.....	.....	10
5	8	1	1.67	10	58.00	1.00	6.9	4.6	0.33	.....	.....	10
5	2	0.5	0.83	10	18.00	1.00	1.9	1.3	0.33	.....	25	10
5	2.5	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	2	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	.....	10	10
.....	‡4 & 2	1	0.83	10	.....	D.C. <sup>a</sup>	2.5	1.25	0.60	.....	.....	10
5	2.8	0.75	1.11	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	7	1	1.67	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
.....	‡8 & 4	1	1.11	10	37.00	1.00	3.5	2.3	1	.....	.....	10
5	3.5	1.5	1.38	10	38.00	1.00	3.5	2.3	1.5	.....	.....	10
5	3.5	1	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	5.5	1	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	3.5	1	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	3	1	1.11	10	40.00	1.00	4.3	2.8	0.33	.....	.....	10
5	3.5	1	1.11	10	32.00	1.00	3.1	2	0.33	.....	.....	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	2.5	0.7	0.83	10	25.00	1.00	2	1.3	0.33	.....	.....	10
5	6	1	1.66	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	5	1	1.55	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	.....	.....	10
5	2	0.75	0.83	10	20.00	1.00	1.6	1	0.33	.....	10	10
5	2.25	1	0.83	10	19.00	1.00	2	1.4	0.33	.....	25	10
5	4	1	1.11	10	43.00	1.00	4.7	3.1	0.33	.....	.....	10
5	2.5	1	1.11	10	33.00	1.00	3.2	2.1	0.33	.....	.....	10
5	2.2	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	4	1	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	2.5	1	0.83	10	36.00	1.00	3.7	2.4	0.33	.....	.....	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	.....	.....	10
5	2	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	.....	25	10
5	8	1	\$3.05	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	4	1	1.39	10	43.00	1.00	4.7	3.1	0.33	.....	.....	10
5.6	3	1	.94	20	25.00	1.00	2	1.3	0.33	.....	.....	10
5	6	1	1.67	10	45.00	1.00	4.9	3.3	0.33	.....	.....	10
5	3	1	1.39	10	55.00	1.00	6.5	4.3	0.33	.....	.....	10
5	8	2	\$2.22	10	58.00	1.00	6.9	4.6	0.33	.....	.....	10
5	2.5	1	0.83	10	50.00	1.00	5.7	3.8	0.33	min. 2.22	.....	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	.....	10	10
5	4	1	1.11	10	38.00	1.00	4	2.6	0.33	.....	.....	10
5	3	1	0.83	10	22.00	1.00	1.9	1.3	0.33	.....	10	10
5	2	0.5	0.83	10	17.00	1.00	1.7	1.1	0.33	.....	25	10
5	4	1	1.11	10	35.00	1.00	3.5	2.3	0.33	.....	.....	10
5	4.5	1	1.38	10	50.00	1.00	5.7	3.8	0.33	.....	.....	10
5	2	0.75	0.83	10	21.00	1.00	1.8	1.1	0.33	.....	10	10
5	4.5	1	1.38	10	50.00	1.00	5.7	3.8	0.33	min. 2.77	.....	10

¶Next 260 hours per kw-hr.

‡First 70 hours, 4 cents per kw-hr.

Next 70 hours, 2 cents per kw-hr.

a. D.C. Service charge \$1.35 per h.p. for first 10 h.p., plus \$1.00 per h.p. for additional h.p.

b. A.C. Service charge \$1.25 per h.p. for first 10 h.p., plus \$1.00 per h.p. for additional h.p.

‡First 30 hours, 8 cents per kw-hr.

Next 70 hours, 4 cents per kw-hr.



## APPENDIX I

### ACTS

#### CHAPTER 14

#### The Power Commission Act, 1932.

*Assented to March 29th, 1932.*

**H**IS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

1. This Act may be cited as *The Power Commission Act, 1932.* Short title.

2. By-law number 1244 of the corporation of the town of Bowmanville; by-law number 1467 of the corporation of the town of Cobourg; by-law number 1619 of the corporation of the town of Trenton; by-law number 1462 of the corporation of the town of Walkerton; by-law number 306 of the corporation of the town of Wiarton; by-law number 2 of 1931 of the corporation of the village of Bath; by-law number 779 of the corporation of the village of Port Elgin; by-law number 40 of the corporation of the village of Rosseau; by-law number 704 of the corporation of the village of Streetsville; by-law number 181 of the corporation of the village of Westport; by-law number 45 of the corporation of the village of Windermere; by-law number 1628 of the corporation of the township of North York; and all debentures issued or to be issued or purporting to be issued under any of the said by-laws which authorize the issue of debentures are confirmed and declared to be legal, valid and binding upon such corporations and the ratepayers thereof respectively and shall not be open to question upon any ground whatsoever notwithstanding the requirements of *The Power Commission Act* or the amendments thereto or any other general or special Act of this Legislature. By-laws confirmed.  
Rev. Stat., c. 57.

3. This Act shall come into force on the day upon which it receives the Royal Assent. Commencement of Act.



## CHAPTER 56

## An Act respecting the Sandwich, Windsor and Amherstburg Railway.

*Assented to March 29th, 1932.*

**H**IS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Short title.

1. This Act may be cited as *The Sandwich, Windsor and Amherstburg Railway Act, 1932.*

1930,  
c. 17, s. 3,  
amended.

2. Section 3 of *The Sandwich, Windsor and Amherstburg Railway Act, 1930*, is amended by adding thereto the following clause:

Appoint-  
ment of  
substitute.

(c) Each corporation may by by-law passed annually appoint a substitute in the place and stead of the member appointed by it under clause *a* to act and vote at meetings of the company, held during the year which the member may find himself unable to attend, and for such purpose the substitute shall have and may exercise all the powers and authority of the member at such meetings.

1930,  
c. 17, s. 23,  
amended.

3.—(1) Section 23 of *The Sandwich, Windsor and Amherstburg Railway Act, 1930*, is amended by adding at the end thereof the following words, "except in accordance with the provisions hereinafter in this section contained."

1930, c. 17,  
s. 23,  
amended.

(2) The said section 23 is further amended by adding thereto the following subsections:

Substitution  
of  
debentures  
on boundary  
alterations.

(2) If by reason of any alteration in the boundaries of the municipalities of the corporations made either before or after the date of enactment of this Act the commission in its discretion shall have determined or shall hereafter determine that an adjustment be made in the respective liabilities of the corporations heretofore or hereafter arising in respect of the operation of the railway and in the respective amounts of debentures of the respective corporations mortgaged, hypothecated and pledged to the trustee under the indenture securing the bonds of the commission, the company, subject to the terms of such trust indenture, may with the approval of the commission and shall when directed by the commission cancel, release and deliver up to any corporation any debentures issued and deposited by it with the commission together with all coupons attached thereto.

- (3) Such debentures shall be cancelled, released and delivered only upon the issue and delivery to the company in substitution therefor of new debentures of one or more of the corporations to an aggregate principal amount at least equal to the aggregate principal amount of the debentures of the corporation or corporations to be released. When substitution to be made.
- (4) Such new debentures shall carry interest from the interest payment date next preceding the date of the issue and delivery of said new debentures, and bear the same rate of interest and mature on the same date and be payable in the same manner and upon the same terms as the debentures of the corporations to be released. Terms of new debentures.
- (5) Such new debentures shall be held and disposed of by the company upon the same trusts and upon the same terms and conditions and for the same purposes as the debentures of the corporations to be released. Application of new debentures.
- (6) For the purpose of carrying out such substitution of debentures as aforesaid the corporations or any of them may, and, when directed by the commission, shall authorize by by-law the issue and delivery to the company of such new debentures. Issue of new debentures.
- (7) In the event that the trustee under any such trust indenture shall sell or otherwise dispose of any or all of the municipal debentures mortgaged, hypothecated and pledged thereunder such trustee shall detach and cancel all coupons attached to said debentures which have matured prior to the date of such sale or other disposition. Cancellation of matured coupons.
- (8) The commission, the company, the trust company and each of the corporations shall have power to do and perform all acts, matters and things necessary to fully carry into effect the provisions of this section and the terms and requirements of any adjustment made thereunder. Power to carry out adjustment.
4. Section 29 of *The Sandwich, Windsor and Amherstburg Railway Act, 1930*, is repealed and the following substituted therefor: 1930 c. 17, s. 29, repealed.
- 29.—(1) None of the corporations shall grant or permit to be granted or renewed to any person, any right, privilege, license or franchise to maintain, use or operate any bus, jitney, taxicab or other vehicle for the purpose of transportation of passengers for gain or hire which may in any way come into competition with the railway or prejudicially affect its revenues. Protection of revenues of railway.
- (2) The company may require the corporations or any of them to pass such by-laws as may be necessary to effectually prevent such competition or prejudicial effect upon revenues of the railway, including the prescribing of minimum rates of fares to be charged for the transportation of passengers in any such bus, jitney, taxicab or other vehicle. Municipal by-laws.

Jurisdiction  
of Municipal  
Board.

- (3) If upon being requested in writing so to do by the company, any of the corporations shall fail within thirty days after receipt of such request to pass any by-law as aforesaid or such by-law as may be approved by the company, the company may apply to the Ontario Municipal Board for an order to compel the corporation forthwith to pass such by-law as the said board may prescribe, and for such purpose the said board shall have all jurisdiction and power necessary therefor, and the provisions of *The Ontario Municipal Board Act, 1932*, shall apply.

1932, c. 27.

Council's  
powers.

Rev. Stat.,  
c. 233.

- (4) Notwithstanding the provisions of *The Municipal Act*, the councils of the corporations shall have and exercise all the powers necessary to pass any by-law required to be passed under this section, and the powers in that behalf of a board of police commissioners, if any, established in any of the municipalities shall, for the purposes of this section, be exercisable by the council only and in lieu of the board of police commissioners.

1930,  
c. 17,  
amended.

5. *The Sandwich, Windsor and Amherstburg Railway Act, 1930*, is amended by adding thereto the following sections:

Outstanding  
deficits.

- 29a.—(1) It is hereby declared that the sums due and owing as of the 23rd day of December, 1931, by the respective corporations under the Acts, including this Act, agreements and mortgage deed of trust relating to the railway are as set forth in the first column of schedule "B" to this Act opposite the names of such respective corporations.

Provision for  
such deficits.

1932, c. 27.

- (2) Subject as in *The Ontario Municipal Board Act, 1932*, may otherwise be provided, the said respective corporations shall include in their estimates for the year 1932 the respective sums set opposite their names in column 4 of said schedule with interest thereon as hereinafter provided and shall raise and levy the same in the year 1932 by a special rate on all the rateable property in the said respective municipalities rateable therefor and shall pay the same to the trustee under the said mortgage deed of trust together with interest thereon at the rate of six per centum per annum from the 23rd day of December, 1931, until the date of payment, which shall be not later than the 23rd day of December, 1932.

Sinking  
fund and de-  
preciation.

- (3) Notwithstanding the provisions contained in said Acts, agreements and mortgage deed of trust or in any demands or certificates heretofore or hereafter made by the commission or the trustee pursuant thereto the corporations shall not be obliged until such time or times as the Lieutenant-Governor in Council may direct to pay the amounts set opposite the names of said respective corporations in the second and third columns of the said schedule or any accrued interest thereon or any further amounts which pursuant to the provisions of the said Acts or agreements or mortgage deed of trust may

hereafter become due and owing by them or any of them in respect of deficits for sinking fund or for reserves for renewals, obsolescence and depreciation in connection with the operation of the railway and the said mortgage deed of trust shall be read and construed accordingly; but such unpaid amounts shall be raised and levied by the respective corporations and paid over to the trustee or its successor in the trust from time to time in such amounts with interest at such rate and from such date as the Lieutenant-Governor in Council may from time to time direct.

- (4) The certificates of the commission to the trustee as to the respective amounts from time to time due and owing by the corporations in respect of deficits for sinking fund or reserves as aforesaid shall be conclusive evidence of the fact. Certificates.
- 29b.—The mortgage deed of trust dated 31st July, 1931, made between the company, the commission and Guaranty Trust Company of Canada, as trustee, is hereby amended by adding after the word "interest" in the heading of Article IV thereof the words "and principal," and as so amended the said mortgage deed of trust and all the provisions, covenants and stipulations therein contained are hereby declared to be legal, valid and binding, and subject to the provisions of section 29a of this Act the corporations shall be bound to comply with all demands made upon them by said trustee pursuant to the provisions of said mortgage deed of trust. Confirmation of mortgage deed of trust.
- 29c. It is hereby declared that the bonds of the commission to the aggregate principal amount of five million eight hundred and sixteen thousand two hundred and five dollars (\$5,816,205.00) guaranteed as to the payment of both principal and interest by the Province of Ontario referred to in this Act, are legal, valid and binding outstanding obligations, and that the debentures heretofore issued by the corporations and deposited with the commission in respect of said bonds of the commission and the by-laws authorizing the issue thereof are legal, valid and binding upon the respective corporations and the ratepayers thereof and that the said debentures were issued and deposited with the commission in accordance with the agreement dated 1st January, 1920, and amendments thereof referred to in the recitals to this Act. Validation of bonds and debentures.
- 29d. Where under the provisions of the Acts, including this Act, agreements or mortgage deed of trust relating to the railway it is the duty of the council of any of the corporations to pass any by-law or resolution respecting any matter relating to the affairs of the railway and the council fails or neglects to pass the same within sixty days after being notified so to do, each member of the council, unless he shows that he made reasonable efforts to procure the passing of such by-law or resolution shall be liable to a penalty of not less than \$25 and not more Penalties.



Rev. Stat.,  
c. 121.

By-laws  
Nos. 792  
and 920,  
Township of  
Sandwich  
West,  
confirmed.

Commence-  
ment of Act.

than \$190 recoverable in the same manner as penalties for breach of the provisions of municipal by-laws under *The Municipal Act*.

29e. By-laws numbers 792 and 920 of the corporation of the township of Sandwich West are and each of them is confirmed and declared to be legal, valid and binding upon the said corporation and the ratepayers thereof.

6. This Act shall come into force on the day upon which it receives the Royal Assent.

SCHEDULE "B"

Name of Corporation	Column 1	Column 2 Sinking Fund	Column 3 Renewals	Column 4
	\$ c.	\$ c.	\$ c.	\$ c.
Township of Sandwich East.....	6,285.39	485.83	1,101.88	4,697.68
Township of Sandwich West.....	31,618.52	2,443.95	5,543.03	23,631.54
City of East Windsor.....	48,603.95	3,756.85	8,520.73	36,326.37
Town of Walkerville.....	78,145.02	6,040.23	13,699.56	58,405.23
Town of Sandwich.....	74,809.24	5,782.40	13,114.76	55,912.08
Town of Ojibway.....	5,476.36	407.73	1,296.51	3,772.12
Town of Amherstburg.....	23,268.56	1,798.55	4,079.20	17,390.81
City of Windsor.....	271,786.07	21,007.76	47,646.66	203,131.65
Town of Tecumseh.....	9,574.09	740.04	1,678.43	7,155.62
Town of Riverside.....	19,972.36	1,543.77	3,501.35	14,927.24
Town of LaSalle.....	10,539.46	814.66	1,847.67	7,877.13
	580,079.02	44,821.77	102,029.78	433,227.47

CHAPTER 57

An Act respecting the Hamilton Street Railway Company.

Assented to March 29th, 1932.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

- Short title.

Confirmation of agreement.

Commence-  
ment of Act.
1. This Act may be cited as *The Hamilton Street Railway Company Act, 1932*.

2. The agreement dated 20th October, 1931, between the Hamilton Street Railway Company and the municipal corporation of the City of Hamilton set forth in the schedule to this Act is hereby confirmed and declared to be legal, valid and binding upon the parties thereto.

3. This Act shall come into force on the day upon which it receives the Royal Assent.

## SCHEDULE

This Agreement made in triplicate this Thirtieth day of October, 1931.  
BETWEEN:

THE CORPORATION OF THE CITY OF HAMILTON hereinafter called the City,  
of the first part;  
—and—

THE HAMILTON STREET RAILWAY COMPANY hereinafter called the Company,  
of the second part.

Whereas by By-law No. 3336 of the City, passed on the 25th day of May, 1926, and the Agreement therein referred to, the consent, permission and authority of the City were given and granted to the Company to provide a modern and efficient street railway and transportation system on the streets of the City, and by the terms of section 9 of the said Agreement, the Company must pay as therein provided, to the City, quarterly, four per centum of its gross receipts;

And whereas on the application of the Company, the Ontario Railway and Municipal Board issued its order dated 24th April, 1931, approving and permitting the operation by the Company of street railway cars operated by one employee on all routes of the Company's system;

And whereas the said order *inter alia* provides that the Company may operate street railway cars operated by one employee on the route known as the belt line route on and after January 2nd, 1932;

And whereas the City has made an application to the Board to vary the said order, and such application has from time to time been adjourned at the suggestion of the Board in order that some agreement may be arrived at between the parties as to what, if any, amendment should be made to the said order;

And whereas conferences have taken place between the City and the Company, and between the Company and its employees, which have resulted in an Agreement as hereinafter set out:

Now therefore this Agreement witnesseth that in consideration of the premises, the parties hereto have agreed as follows:

1. The Company consents to an Order being made by the Ontario Railway and Municipal Board amending the said Order dated 24th April, 1931, as follows:

- (a) The word "September" in the second line of the paragraph numbered "2" be stricken out, and the word "November" substituted therefor.
- (b) The figures "1932" following the word "January" in the third line of paragraph numbered "3," and in the eighth line of paragraph numbered "4" be stricken out, and the figures "1933" substituted therefor in each case.

2. The City hereby agrees that notwithstanding the provisions of section 9 of the Agreement dated 25th May, 1926, between the City and the Company, the Company shall not be required to pay to the City more than two and two-thirds per centum of its gross receipts in and for the year 1932, but save as aforesaid, the said Agreement shall remain in full force and effect.

3. The Parties hereto agree to join in an application to the Legislature of the Province of Ontario at its next Session for such legislation as may be necessary to confirm and ratify this Agreement and to declare the same to be valid, legal and binding upon the Parties hereto.

In witness whereof the Parties hereto have caused this Agreement to be executed by their duly authorized officers, and have affixed hereto their respective corporate seals.

SIGNED, SEALED AND DELIVERED

(SEAL)

CORPORATION OF THE CITY OF HAMILTON.  
(Signed) JOHN PEEBLES,  
Mayor.  
(Signed) S. H. KENT,  
City Clerk.

THE HAMILTON STREET RAILWAY COMPANY.  
(Signed) J. R. COOKE,  
President.  
(Signed) W. W. POPE,  
Secretary.

(SEAL)

CHAPTER 99

An Act respecting the Windsor, Essex and Lake Shore  
Electric Railway Association.

*Assented to March 29th, 1932.*

Preamble.

**W**HEREAS the Windsor, Essex and Lake Shore Electric Railway Association has by its petition prayed for special legislation in respect of certain matters affecting the Association and the municipalities which it represents; and whereas it is expedient to grant the prayer of the said petition;

Therefore, His Majesty, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Short title.

1. This Act may be cited as *The Windsor, Essex and Lake Shore Rapid Railway Act, 1932.*

Municipal Board Act, 1932 to apply to the Association.

2. The Windsor, Essex and Lake Shore Electric Railway Association is hereby declared to be a municipality within the meaning of *The Ontario Municipal Board Act, 1932*, and the provisions thereof shall extend and apply to the said Association, in the same manner and to the same extent, *mutatis mutandis*, as such provisions may apply to a municipality.

Commencement of Act.

3. This Act shall come into force on the day upon which it receives the Royal Assent.

## APPENDIX II

### TRANSMISSION LINE RECORDS

Corrected to October 31, 1932

including

Summaries of data respecting mileage of transmission lines built or acquired by the Hydro-Electric Power Commission. The sizes, materials, lengths, and weights of conductors, and other particulars of the high-voltage steel-tower transmission lines, the wood-pole transmission lines—excepting 4,000 volts or less—and the telephone lines.



## TRANSMISSION LINE RECORDS—ALL SYSTEMS

The total mileage of lines built and acquired by the Commission up to October 31, 1932, for the various systems, excepting all lines operating at less than 4,000 volts, is indicated in the following table:

## TOTAL MILEAGE OF TRANSMISSION LINES

System and type of construction	Miles
Niagara system—220,000-volt, steel-supported transmission lines.....	703.72
Northern Ontario system—132,000-volt, steel-supported transmission lines.....	189.00
Niagara system—110,000-volt, steel-supported transmission lines.....	731.91
Niagara system—110,000-volt, wood-supported transmission lines.....	68.75
Eastern Ontario system—110,000-volt, steel-supported transmission lines.....	52.94
Eastern Ontario system—110,000-volt, wood-supported transmission lines.....	61.58
Thunder Bay system—110,000-volt, steel-supported transmission lines.....	82.12
Thunder Bay system—110,000-volt, wood-supported transmission lines.....	81.79
Thunder Bay system—22,000-volt, wood-supported transmission lines.....	0.35
Thunder Bay system—12,000-volt, wood-supported transmission lines.....	1.45
Georgian Bay system—110,000-volt, wood-supported transmission lines.....	55.83
Niagara system—90,000-volt, steel-supported transmission lines.....	65.72
Niagara system—60,000-volt, steel-supported transmission lines.....	54.07
Niagara system—60,000-volt, wood-supported transmission lines.....	17.12
Niagara system—46,000-volt, steel-supported transmission lines.....	16.94
Niagara system—46,000-volt, wood-supported transmission lines.....	21.54
Niagara system—30,000-volt, wood-supported transmission lines.....	13.29
Niagara system—26,400-volt, wood-supported transmission lines.....	608.00
Niagara system—13,200-volt, wood-supported transmission lines.....	434.26
Niagara system—12,000-volt, wood-supported transmission lines.....	106.71
Dominion Power system—44,000-volt, steel-supported transmission lines.....	37.37
Dominion Power system—44,000-volt, wood-supported transmission lines.....	153.85
Dominion Power system—22,000-volt, wood-supported transmission lines.....	28.23
Dominion Power system—22,000-volt, concrete pole transmission lines.....	10.55
Dominion Power system—11,500-volt, wood-supported transmission lines.....	7.33
Dominion Power system—10,000-volt, wood-supported transmission lines.....	6.76
Georgian Bay system—(38,000-volt).....	54.28
Georgian Bay system—(6,600-volt).....	2.30
Georgian Bay system—	
Severn district—(22,000-volt).....	177.01
Eugenia district—(22,000-volt).....	322.58
Wasdells district—(22,000-volt).....	83.72
Muskoka district—(38,000-volt and less).....	26.46
Eastern Ontario system—	
Central Ontario district—(44,000-volt and less).....	506.55
St. Lawrence district—(44,000-volt).....	120.01
Rideau district—(26,400-volt).....	76.87
Madawaska district—(33,000-volt and less).....	58.71
Northern Ontario system—	
Nipissing district—(22,000-volt).....	51.32
Sudbury district—(22,000-volt).....	33.23
Total.....	5,124.22
Total separate wood-pole telephone lines for high-voltage systems.....	1,131.06

NOTE.—Of the above the Niagara system and a part of the Northern Ontario system are operated at 25 cycles. The other systems are operated at 60 cycles.

## TRANSMISSION LINE RECORDS—ALL SYSTEMS

## TOTAL MILEAGES AND WEIGHTS OF CONDUCTORS

Type of construction	Wire miles of conductors			Weight in pounds		
	Completed to Oct. 31, 1931	Completed Oct. 31, 1931, to Oct. 31, 1932	Under construction Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931, to Oct. 31, 1932	Under construction Oct. 31, 1932
High-voltage lines, 220,000 volts, Niagara system .....	1,810.68	300.48	4.14	9,790,346	1,624,695	14,353
High-voltage lines, 132,000 volts, Northern Ontario system .....	1,134.00			3,161,592		
High-voltage lines, 110,000 volts and less, Niagara system .....	5,245.32		2.04	16,306,499		8,400
High-voltage lines, 110,000 volts, Thunder Bay system .....	750.30			1,932,880		
High-voltage lines, 110,000 volts, Eastern Ontario system .....	351.45			1,078,889		
High-voltage lines, 110,000 volts, Georgian Bay system .....	176.01			229,264		
Wood and steel power lines built and acquired by the Commission	9,710.34	21.96	48.90	8,838,141	19,097	32,503
Dominion Power system, acquired by the Commission .....	884.85			822,863		
Telephone lines built and acquired by the Commission and erected on wood-pole lines carrying power conductors .....	4,907.76			1,155,717		
High-voltage telephone lines, Niagara system, 220,000 volts .....	421.00			81,833		
High-voltage telephone lines, Northern system, 132,000 volts .....	381.52			85,372		
High-voltage telephone lines, Niagara system .....	3,804.36			733,054		
High-voltage telephone lines, Eastern Ontario system .....	277.88			79,358		
High-voltage telephone lines, Thunder Bay system .....	201.32			72,619		
High-voltage telephone lines, Georgian Bay system .....	111.66			43,394		
Totals .....	30,168.45	322.44	55.08	44,411,821	1,643,792	55,256

NOTE.—This table does not include lines operated at less than 6,600 volts.

## NIAGARA SYSTEM—

## TOTAL MILEAGE OF HIGH-VOLTAGE LINES

Type of construction	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932
220,000-volt, steel-supported transmission lines. . . . .	603.56	100.16	703.72

## SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors		
	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932
795,000 c.m., a.c.s-r. . . . .	1,810.68	300.48	2,111.16

## NORTHERN ONTARIO SYSTEM—ABITIBI DISTRICT—

## TOTAL MILEAGE OF HIGH-VOLTAGE LINES

Type of construction	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932
132,000-volt, steel-supported transmission lines. . . . .	189.00	.....	189.00

## SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductor		
	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932
336,400 c.m., a.c.s-r. . . . .	1,134.00	.....	1,134.00

NOTE.—a.c.s-r=Aluminum conductor, steel-reinforced; weights include steel core.

220,000-VOLT TRANSMISSION LINES

TOTAL NUMBER OF STEEL TOWERS

Type	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932
220,000-volt towers.....	3,003	503	3,511

WEIGHT OF POWER CONDUCTOR

Weight in pounds			Miles of single-circuit lines		
Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Completed to Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Completed to Oct. 31, 1932
9,790,346	1,624,695	11,415,041	603.56	100.16	703.72

132,000-VOLT TRANSMISSION LINES

TOTAL NUMBER OF STEEL TOWERS

Type	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932
132,000-volt towers.....	983	.....	983

WEIGHT OF POWER CONDUCTOR

Weight in pounds			Miles of double-circuit lines		
Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Completed to Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Completed to Oct. 31, 1932
3,161,592	.....	3,161,592	189.00	.....	189.00



## EASTERN ONTARIO SYSTEM—

## TOTAL MILEAGE OF HIGH-VOLTAGE LINES

Type of construction	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932
110,000-volt, steel-supported transmission lines.....	52.94	.....	52.94
110,000-volt, wood-supported transmission lines.....	61.58	.....	61.58
Totals.....	114.52	.....	114.52

## SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors			Weight in pounds		
	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932
477,000 c.m., a.c.s-r.....	278.46	.....	278.46	965,317	.....	965,317
211,000 c.m., a.c.s-r. (4/0).....	72.99	.....	72.99	113,572	.....	113,572
Totals.....	351.45	.....	351.45	1,078,889	.....	1,078,889

NOTE—a.c.s-r=Aluminum conductor, steel-reinforced; weights include steel core.

## HIGH-VOLTAGE TRANSMISSION LINES

## TOTAL NUMBER OF STEEL TOWERS AND WOOD POLES

Type	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932
110,000-volt steel towers.....	299	.....	299
110,000-volt wood poles.....	842	.....	842
Totals.....	1,141	.....	1,141

## WEIGHT OF POWER CONDUCTORS

Miles of single-circuit lines			Miles of double-circuit lines			Total miles single- and double-circuit lines Oct. 31, 1932
Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932	
87.56	.....	87.56	2.63	.....	2.63	90.19
24.33	.....	24.33	.....	.....	.....	24.33
111.89	.....	111.89	2.63	.....	2.63	114.52

NIAGARA SYSTEM—

TOTAL MILEAGE OF HIGH-VOLTAGE LINES

Type of construction	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932
110,000-volt steel-supported transmission lines.....	731.91	.....	731.91
110,000-volt wood-supported transmission lines.....	68.75	.....	68.75
90,000-volt steel-supported transmission lines.....	65.72	.....	65.72
60,000-volt steel-supported transmission lines.....	54.07	.....	54.07
60,000-volt wood-supported transmission lines.....	17.12	.....	17.12
46,000-volt steel-supported transmission lines.....	16.94	.....	16.94
46,000-volt wood-supported transmission lines.....	21.54	.....	21.54
12,000-volt wood-supported transmission lines.....	2.05	.....	2.05
Totals.....	978.10	.....	978.10

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductor			Weight in pounds		
	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Under construction Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Under construction Oct. 31, 1932
167,800 c.m., a.c.s-r.....	198.00	.....	.....	242,946	.....	.....
266,800 c.m., a.c.s-r.....	304.86	.....	.....	552,101	.....	.....
312,000 c.m., a.c.s-r.....	602.73	.....	.....	1,558,057	.....	.....
336,400 c.m., a.c.s-r.....	607.35	.....	.....	1,693,292	.....	.....
477,000 c.m., a.c.s-r.....	24.09	.....	.....	82,821	.....	.....
500,000 c.m., a.c.s-r.....	247.62	.....	.....	1,015,737	.....	.....
605,000 c.m., a.c.s-r.....	1,210.38	.....	2.04	4,984,345	.....	8,400
115,000 c.m., copper.....	27.54	.....	.....	51,472	.....	.....
133,079 c.m., copper.....	6.36	.....	.....	13,743	.....	.....
167,800 c.m., copper.....	616.86	.....	.....	1,679,710	.....	.....
190,000 c.m., copper.....	766.59	.....	.....	2,428,557	.....	.....
211,600 c.m., copper.....	528.75	.....	.....	1,815,199	.....	.....
500,000 c.m., aluminum.....	3.51	.....	.....	8,740	.....	.....
820,000 c.m., aluminum.....	36.06	.....	.....	108,180	.....	.....
5/16" galv. steel.....	64.62	.....	.....	71,599	.....	.....
Totals.....	5,245.32	.....	2.04	16,306,499	.....	8,400

NOTE—a.c.s-r=Aluminum conductor, steel-reinforced; weights include steel core.

## HIGH-VOLTAGE TRANSMISSION LINES

## TOTAL NUMBER OF STEEL TOWERS AND WOOD POLES

Type	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932
110,000-volt steel towers.....	6,211	.....	6,211
110,000-volt wood poles.....	855	.....	855
90,000-volt steel towers.....	747	.....	747
60,000-volt steel towers.....	769	.....	769
60,000-volt wood poles.....	506	.....	506
46,000-volt steel towers.....	376	.....	376
46,000-volt wood poles.....	672	.....	672
12,000-volt wood poles.....	10	.....	10
Totals.....	10,146	.....	10,146

## WEIGHT OF POWER CONDUCTORS

Miles of single-circuit lines			Miles of double-circuit lines			Miles of four-circuit lines			Total miles one-, two- and four-circuit lines
Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Under construction Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Under construction Oct. 31, 1932	Completed Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Under construction Oct. 31, 1932	Completed to Oct. 31, 1932
66.00	.....	.....	.....	.....	.....	.....	.....	.....	66.00
37.12	.....	.....	32.25	.....	.....	.....	.....	.....	69.37
22.25	.....	.....	89.33	.....	.....	.....	.....	.....	111.58
6.39	.....	.....	98.03	.....	.....	.....	.....	.....	104.42
7.61	.....	.....	0.21	.....	.....	.....	.....	.....	7.82
0.62	.....	.....	40.96	.....	.....	.....	.....	.....	41.58
2.06	.....	0.68	195.64	.....	.....	2.53	.....	.....	200.23
9.18	.....	.....	.....	.....	.....	.....	.....	.....	9.18
.....	.....	.....	1.06	.....	.....	.....	.....	.....	1.06
.....	.....	.....	102.81	.....	.....	.....	.....	.....	102.81
9.07	.....	.....	123.23	.....	.....	.....	.....	.....	132.30
4.05	.....	.....	54.24	.....	.....	15.88	.....	.....	74.17
1.17	.....	.....	.....	.....	.....	.....	.....	.....	1.17
12.02	.....	.....	.....	.....	.....	.....	.....	.....	12.02
21.54	.....	.....	.....	.....	.....	.....	.....	.....	21.54
199.08	.....	0.68	737.76	.....	.....	18.41	.....	.....	955.25



### THUNDER BAY SYSTEM— MILEAGE OF HIGH-VOLTAGE LINES

Type of construction	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932
110,000-volt steel-supported transmission lines.....	82.12	.....	82.12
110,000-volt wood-supported transmission lines.....	81.79	.....	81.79
22,000-volt wood-supported transmission lines.....	0.35	.....	0.35
12,000-volt wood-supported transmission lines.....	1.45	.....	1.45
Totals.....	165.71	.....	165.71

### SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors				Weight in pounds			
	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932		Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932	
336,400 c.m., a.c.s-r.....	282.36	.....	282.36		787,220	.....	787,220	
4/0 a.c.s-r (211,000 c.m.).....	233.67	.....	233.67		363,590	.....	363,590	
190,000 c.m. copper.....	4.35	.....	4.35		13,781	.....	13,781	
4/0 copper (211,000 c.m.).....	213.39	.....	213.39		732,568	.....	732,568	
2/0 copper (133,079 c.m.).....	16.53	.....	16.53		35,721	.....	35,721	
Totals.....	750.30	.....	750.30		1,932,880	.....	1,932,880	

### GEORGIAN BAY SYSTEM— MILEAGE OF HIGH-VOLTAGE LINES

Type of construction	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932
110,000-volt wood-supported transmission lines.....	55.83	.....	55.83
Totals.....	55.83	.....	55.83

### SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductor		
	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total completed to Oct. 31, 1932
3/0 a.c.s-r. (167,800 c.m.).....	167.49	.....	167.49
336,400 c.m., a.c.s-r.....	8.52	.....	8.52
Totals.....	176.01	.....	176.01

NOTE—a.c.s.r.=Aluminum conductor, steel-reinforced; weights include steel core.

## HIGH-VOLTAGE TRANSMISSION LINES

## TOTAL NUMBER OF STEEL TOWERS AND WOOD POLES

Type	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932
110,000-volt steel towers.....	554	.....	554
110,000-volt wood poles.....	1,320	.....	1,320
22,000-volt wood poles.....	15	.....	15
12,000-volt wood poles.....	59	.....	59
Totals.....	1,948	.....	1,948

## WEIGHT OF POWER CONDUCTORS

Miles of single-circuit conductors			Miles of double-circuit conductors			Miles of three-circuit conductors	Total miles single-, double-, and three- circuit conductors
Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932	Total to Oct. 31, 1932	Completed to Oct. 31, 1932
69.97	.....	69.97	11.73	.....	11.73	0.23	81.93
77.89	.....	77.89	.....	.....	.....	.....	77.89
1.45	.....	1.45	.....	.....	.....	.....	1.45
69.97	.....	69.97	0.58	.....	0.58	.....	70.55
5.51	.....	5.51	.....	.....	.....	.....	5.51
224.79	.....	224.79	12.31	.....	12.31	0.23	237.33

## HIGH-VOLTAGE TRANSMISSION LINES

## TOTAL NUMBER OF WOOD POLES

Type	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932
110,000-volt wood poles.....	548	.....	548
Totals.....	548	.....	548

## WEIGHT OF POWER CONDUCTORS

Weight in pounds			Miles of single-circuit lines			Total miles single-circuit lines
Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total completed to Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total completed to Oct. 31, 1932	Completed to Oct. 31, 1932
205,510	.....	205,510	55.83	.....	55.83	55.83
23,754	.....	23,754	2.84	.....	2.84	2.84
229,264	.....	229,264	58.67	.....	58.67	58.67

# NIAGARA SYSTEM—WOOD-POLE TELEPHONE LINES

## SIZE, MATERIAL, LENGTH AND WEIGHT

Size and material	Wire miles of conductors		Weight in pounds		Miles of single-circuit lines	
	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932
No. 8 B. & S.G. copper....	32.18	.....	8,494	.....	16.09	.....
No. 9 B. & S.G. copper....	989.38	.....	206,780	.....	132.79	.....
No. 10 B. & S.G. copper....	1,158.78	.....	192,357	.....	212.51	.....
No. 11 B. & S.G. copper....	107.68	.....	14,106	.....	53.84	.....
No. 8 copper-clad steel....	145.20	.....	35,574	.....		.....
No. 19 p-i. l-c. cable.....	992.30	.....	118,928	.....		.....
No. 22 p-i. l-c. cable.....	34.00	.....	1,885	.....		.....
No. 14 p-i. l-c. cable.....	210.00	.....	76,296	.....		.....
No. 12 weather-proof iron...	2.84	.....	886	.....	1.42	.....
6 x .0661 steel, 1 x .0661 alum.	132.00	.....	77,748	.....	66.00	.....
Totals.....	3,804.36	.....	733,054	.....	482.65	.....

NOTE—B. & S.G.—Browne & Sharpe gauge.

FOR HIGH-VOLTAGE TRANSMISSION LINES

OF CONDUCTORS (Excluding 220,000-volt lines)

Miles of double-circuit lines		Miles of four-circuit lines		Miles of paper-insulated lead-covered copper cable		Total mileage 1-, 2-, 4-, and mis- cellaneous circuits completed to Oct. 31, 1932
Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	
168.85		6.05				16.09
178.44						307.69
						390.95
						53.84
36.30						36.30
				14.62		14.62
				0.34		0.34
				2.50		2.50
						1.42
						66.00
383.59		6.05		17.46		889.75

NOTE—B.W.G.=Birmingham wire gauge.  
p-i. l-c. cable=Paper-insulated lead-covered cable.



**THUNDER BAY SYSTEM—WOOD-POLE TELEPHONE**  
**SIZE, MATERIAL, LENGTH AND**

Size and material	Wire miles of conductor			Weight in pounds		
	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932
3 x 12 galv. steel. ....	13.24	.....	13.24	6,514	.....	6,514
3 x 13 galv. steel. ....	161.26	.....	161.26	61,279	.....	61,279
No. 6 a.c.s-r. ....	18.32	.....	18.32	3,517	.....	3,517
No. 10 copper-clad steel.	8.50	.....	8.50	1,309	.....	1,309
Totals. ....	201.32	.....	201.32	72,619	.....	72,619

NOTE—a.c.s-r. = Aluminum conductor, steel-reinforced. Weights include steel core.

# LINE FOR HIGH-VOLTAGE TRANSMISSION LINES WEIGHT OF CONDUCTORS

Miles of single-circuit lines		Total mileage completed to Oct. 31, 1932
Completed to Oct. 31, 1931	Completed Oct 31, 1931 to Oct. 31, 1932	
6.62	.....	6.62
80.63	.....	80.63
9.16	.....	9.16
4.25	.....	4.25
100.66	.....	100.66

## WOOD AND STEEL-POLE TRANSMISSION AND TELEPHONE LINES

(Excluding High-Voltage Lines)

### TOTAL MILEAGE OF LINES AND NUMBER OF POLES

Lines	Miles completed		
	To Oct. 31, 1931	Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932
Low-tension lines completed.....	2,665.98	7.32	2,673.30
Low-tension lines under construction.....	.....	10.00	10.00
Single-circuit lines completed.....	2,104.33	7.32	2,111.65
Double-circuit lines completed.....	544.38	.....	544.38
Three-circuit lines completed.....	16.94	.....	16.94
Five-circuit lines completed.....	0.33	.....	0.33
Single-circuit telephone lines completed.....	2,152.32	.....	2,152.32
Double-circuit telephone lines completed.....	144.24	.....	144.24
Three-circuit telephone lines completed.....	7.67	.....	7.67
STEEL AND WOOD POLES			
Number of poles erected.....	100,614	302	100,916
Number of steel towers erected.....	21	.....	21
Number of poles under construction.....	.....	330	330

### NIAGARA SYSTEM—TELEPHONE LINES

#### SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors			Weight in pounds		
	Completed to Oct. 31, 1931	Completed Oct. 31, 1931, to Oct. 31, 1932	Completed to Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931, to Oct. 31, 1932	Completed to Oct. 31, 1932
No. 6 a.c. s-r. ....	362.14	.....	362.14	69,531	.....	69,531
No. 9 copper. ....	58.86	.....	58.86	12,302	.....	12,302
Totals. ....	421.00	.....	421.00	81,833	.....	81,833

### EASTERN ONTARIO SYSTEM—

#### SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors			Weight in pounds		
	Completed to Oct. 31, 1931	Completed Oct. 31, 1931, to Oct. 31, 1932	Total to Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931, to Oct. 31, 1932	Total to Oct. 31, 1932
3 x .0661 aluminum.... } 4 x .0661 steel. .... }	128.62	.....	128.62	40,258	.....	40,258
1 x .0661 aluminum.... } 6 x .0661 steel. .... }	99.26	.....	99.26	39,100	.....	39,100
Totals. ....	227.88	.....	227.88	79,358	.....	79,358

### GEORGIAN BAY SYSTEM—TELEPHONE LINE

#### SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors			Weight in pounds		
	Completed to Oct. 31, 1931	Completed Oct. 31, 1931, to Oct. 31, 1932	Total to Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931, to Oct. 31, 1932	Total to Oct. 31, 1932
1 x .0661 aluminum.... } 6 x .0661 steel. .... }	111.66	.....	111.66	43,394	.....	43,394
Totals. ....	111.66	.....	111.66	43,394	.....	43,394

NOTE—a.c.s-r. = Aluminum conductor, steel-reinforced; weights include steel core.

FOR 220,000-VOLT LINES  
WEIGHT OF CONDUCTORS

Miles of single-circuit lines		Total mileage of single-circuit lines completed to Oct. 31, 1932
Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	
181.07	.....	181.07
29.43	.....	29.43
210.50	.....	210.50

HIGH-VOLTAGE TELEPHONE LINES  
WEIGHT OF CONDUCTORS

Miles of single-circuit lines		Total mileage of single-circuit lines completed to Oct. 31, 1932
Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	
64.31	.....	64.31
49.63	.....	49.63
113.94	.....	113.94

FOR HIGH-VOLTAGE TRANSMISSION LINES  
WEIGHT OF CONDUCTORS

Miles of single-circuit lines		Total to Oct. 31, 1932
Completed to Oct. 31, 1931	Completed Oct. 31, 1931, to Oct. 31, 1932	
55.83	.....	55.83
55.83	.....	55.83



## WOOD-POLE

## SUMMARY—

## GAUGE, LENGTH AND

Size and material	Wire miles of conductors			Weight in pounds			
	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Under construction Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Under construction Oct. 31, 1932	
1,035,500 c.m. aluminum.....	1.68			8,610			
500,000 c.m. aluminum.....	120.03			298,875			
345,000 c.m. aluminum.....	248.10			423,010			
336,400 c.m. aluminum.....	7.26			12,052			
300,000 c.m. aluminum.....							
173,000 c.m. aluminum.....	57.57			49,856			
4/0 aluminum (211,600 c.m.).....	770.10			808,605			
3/0 aluminum (167,800 c.m.).....	1,966.14			1,639,761			
2/0 aluminum (133,079 c.m.).....	170.10			113,116			
1/0 aluminum (105,534 c.m.).....	645.51			338,893			
No. 2 aluminum (66,373 c.m.).....	292.47			96,515			
477,000 c.m. a.c.s-r.....	103.80			356,864			
605,000 c.m. a.c.s-r.....	0.45			1,853			
336,400 c.m. a.c.s-r.....	277.80			774,506			
125,000 c.m. a.c.s-r.....	233.34			214,673			
4/0 a.c.s-r (211,600 c.m.).....	367.14			571,270			
3/0 a.c.s-r (167,800 c.m.).....	349.47	11.34		428,800	13,914		
2/0 a.c.s-r (133,079 c.m.).....	128.70			125,740			
1/0 a.c.s-r (105,534 c.m.).....	920.67		30.00	714,440		23,280	
No. 2 a.c.s-r (66,373 c.m.).....	1,445.55	10.62	18.90	705,428	5,183	9,223	
No. 4 a.c.s-r (41,742 c.m.).....	65.04			19,902			
190,000 c.m. copper.....	102.57			324,942			
173,000 c.m. copper.....							
115,000 c.m. copper.....	24.96			46,650			
4/0 copper (211,600 c.m.).....	10.20			35,017			
3/0 copper (167,800 c.m.).....	2.94			8,006			
2/0 copper (133,079 c.m.).....	235.89			509,758			
1/0 copper (105,534 c.m.).....	220.32			376,747			
No. 1 copper (83,694 c.m.).....	63.00			85,806			
No. 2 copper (66,373 c.m.).....	69.33			74,807			
No. 3 copper (52,634 c.m.).....	37.53			32,088			
No. 4 copper (41,742 c.m.).....	137.28			92,801			
No. 6 copper (26,250 c.m.).....	95.34			40,520			
3 x 12 galv. steel (35,643 c.m.).....	18.57			9,136			
1/4" galv. steel (48,223 c.m.).....	52.50			34,650			
9/32" galv. steel (62,200 c.m.).....	84.75			74,919			
7/16" galv. steel (153,200 c.m.).....	0.30			657			
5/16" galv. steel (83,200 c.m.).....	315.39			349,452			
6 galv. iron (41,000 c.m.).....	68.55			39,416			
Totals.....	9,710.34	21.96	48.90	8,838,141	19,097	32,503	

NOTE.—a.c.s-r = Aluminum cable, steel-reinforced; weights include steel core.

## TRANSMISSION LINES

(Excluding High-Voltage Lines)

## WEIGHT OF CONDUCTORS

Miles of single-circuit lines			Miles of double-circuit lines			Miles of three-circuit lines			Total circuit miles of one-, two-, three-, circuit lines completed to Oct. 31, 1932
Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Under construction Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Under construction Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Under construction Oct. 31, 1932	
0.56	.....	.....	.....	.....	.....	.....	.....	.....	0.56
1.33	.....	.....	19.34	.....	.....	.....	.....	.....	20.67
2.06	.....	.....	40.32	.....	.....	.....	.....	.....	42.38
.....	.....	.....	1.21	.....	.....	.....	.....	.....	1.21
2.63	.....	.....	8.28	.....	.....	.....	.....	.....	10.91
184.58	.....	.....	36.06	.....	.....	.....	.....	.....	220.64
242.67	.....	.....	198.18	.....	.....	5.45	.....	.....	446.30
30.40	.....	.....	13.15	.....	.....	.....	.....	.....	43.55
145.55	.....	.....	34.81	.....	.....	.....	.....	.....	180.36
90.19	.....	.....	3.65	.....	.....	.....	.....	.....	93.84
34.60	.....	.....	.....	.....	.....	.....	.....	.....	34.60
0.15	.....	.....	.....	.....	.....	.....	.....	.....	0.15
88.78	.....	.....	1.91	.....	.....	.....	.....	.....	90.69
77.78	.....	.....	.....	.....	.....	.....	.....	.....	77.78
100.14	.....	.....	11.12	.....	.....	.....	.....	.....	111.26
90.62	3.78	.....	10.85	.....	.....	1.39	.....	.....	106.64
27.56	.....	.....	7.76	.....	.....	.....	.....	.....	35.32
305.77	.....	10.00	0.56	.....	.....	.....	.....	.....	306.33
433.02	3.54	6.30	23.20	.....	.....	.81	.....	.....	460.57
21.68	.....	.....	.....	.....	.....	.....	.....	.....	21.68
10.47	.....	.....	11.86	.....	.....	.....	.....	.....	22.33
7.86	.....	.....	0.23	.....	.....	.....	.....	.....	8.09
0.88	.....	.....	1.26	.....	.....	.....	.....	.....	2.14
0.56	.....	.....	0.21	.....	.....	.....	.....	.....	0.77
32.09	.....	.....	23.27	.....	.....	.....	.....	.....	55.36
50.92	.....	.....	11.26	.....	.....	.....	.....	.....	62.18
21.00	.....	.....	.....	.....	.....	.....	.....	.....	21.00
17.05	.....	.....	3.03	.....	.....	.....	.....	.....	20.08
11.57	.....	.....	0.47	.....	.....	.....	.....	.....	12.04
19.40	.....	.....	13.18	.....	.....	.....	.....	.....	32.58
31.78	.....	.....	.....	.....	.....	.....	.....	.....	31.78
6.19	.....	.....	.....	.....	.....	.....	.....	.....	6.19
17.50	.....	.....	.....	.....	.....	.....	.....	.....	17.50
28.25	.....	.....	.....	.....	.....	.....	.....	.....	28.25
0.10	.....	.....	.....	.....	.....	.....	.....	.....	0.10
98.01	.....	.....	3.56	.....	.....	.....	.....	.....	101.57
22.85	.....	.....	.....	.....	.....	.....	.....	.....	22.85
2,256.55	7.32	16.30	478.73	.....	.....	7.65	.....	.....	2,750.25

**TELEPHONE**

**ERECTED ON WOOD-POLE LINES**

**GAUGE, LENGTH AND WEIGHT OF ALUMINUM,**

Size and material	Wire miles of conductors				Weight in	
	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Under construction Oct. 31, 1932	Completed to Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932
No. 9 B. & S.G. copper.....	594.98	.....	20.00	594.98	124,351	.....
No. 10 B. & S.G. Copper.....	253.66	.....	.....	253.66	42,107	.....
No. 11 B. & S.G. copper.....	4.44	.....	.....	4.44	702	.....
No. 12 B. & S.G. copper.....	85.92	.....	.....	85.92	8,936	.....
No. 8 B. & S.G. c-c steel.....	135.44	.....	.....	135.44	33,183	.....
No. 9 B. & S.G. c-c steel.....	1.20	.....	.....	1.20	233	.....
No. 10 B. & S.G. c-c steel.....	969.90	.....	.....	969.90	149,365	.....
No. 17 B. & S.G. c-c steel.....	.....	.....	.....	.....	.....	.....
No. 6 B.W.G. galv. iron.....	15.32	.....	.....	15.32	8,778	.....
No. 8 B.W.G. galv. iron.....	.....	.....	.....	.....	.....	.....
No. 9 B.W.G. galv. iron.....	1,616.94	.....	.....	1,616.94	493,167	.....
No. 10 B.W.G. galv. iron.....	73.08	.....	.....	73.08	18,270	.....
No. 12 B.W.G. galv. iron.....	82.92	.....	.....	82.92	13,682	.....
No. 6 a.c.s-r.....	808.64	.....	.....	808.64	155,259	.....
3 x .0661 alum. and 4 x .0661 steel.....	52.34	.....	.....	52.34	16,382	.....
1/4" galv. steel.....	1.48	.....	.....	1.48	977	.....
3 x 12 galv. steel.....	88.88	.....	.....	88.88	43,729	.....
3 x 13 galv. steel.....	122.62	.....	.....	122.62	46,596	.....
Totals.....	4,907.76	.....	20.00	4,907.76	1,155,717	.....

NOTE.—For telephone lines generally on wood poles and serving 220,000-volt and 110,000-volt power lines, see separate table.  
c-c steel = Copper-clad steel. a.c.s.r = Aluminum cable, steel-reinforced.

## LINES

## CARRYING POWER CONDUCTORS

## COPPER-CLAD STEEL AND GALVANIZED IRON WIRE

pounds		Miles of single-circuit lines			Miles of double-circuit lines			Single and double-circuit lines completed to Oct. 31, 1932
Under construction Oct. 31, 1932	Completed to Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Under construction Oct. 31, 1932	Completed to Oct. 31, 1931	Completed Oct. 31, 1931 to Oct. 31, 1932	Under construction Oct. 31, 1932	
4,240	124,351	286.23	.....	10.00	5.63	.....	.....	291.86
.....	42,107	126.83	.....	.....	.....	.....	.....	126.83
.....	702	2.22	.....	.....	.....	.....	.....	2.22
.....	8,936	42.96	.....	.....	.....	.....	.....	42.96
.....	33,183	67.72	.....	.....	.....	.....	.....	67.72
.....	233	1.60	.....	.....	.....	.....	.....	1.60
.....	149,365	477.91	.....	.....	3.18	.....	.....	481.09
.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	8,778	7.66	.....	.....	.....	.....	.....	7.66
.....	493,167	808.47	.....	.....	.....	.....	.....	808.47
.....	18,270	36.54	.....	.....	.....	.....	.....	36.54
.....	13,682	41.46	.....	.....	.....	.....	.....	41.46
.....	155,259	299.94	.....	.....	52.19	.....	.....	352.13
.....	16,382	26.17	.....	.....	.....	.....	.....	26.17
.....	977	0.74	.....	.....	.....	.....	.....	0.74
.....	43,729	44.44	.....	.....	.....	.....	.....	44.44
.....	46,596	61.31	.....	.....	.....	.....	.....	61.31
4,240	1,155,717	2,332.20	.....	10.00	61.00	.....	.....	2,393.20

B. &amp; S.G. = Browne &amp; Sharpe Gauge.

B.W.G. = Birmingham wire gauge.



## DOMINION POWER SYSTEM

## MILEAGE OF LINES

Type of construction	Total to Oct. 31, 1932
44,000-volt, steel-supported transmission lines.....	37.37
44,000-volt, wood-supported transmission lines.....	153.85
22,000-volt, wood-supported transmission lines.....	28.23
22,000-volt, concrete pole-supported transmission lines.....	10.55
11,500-volt, wood-supported transmission lines.....	7.33
10,000-volt, wood-supported transmission lines.....	6.76
Totals.....	244.09

## SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors	
	Total to Oct. 31, 1932	
605,000 c.m. a.c.s-r.....	3.93	
465,000 c.m. aluminum.....	58.50	
157,500 c.m. copper.....	372.84	
198,600 c.m. copper.....	10.98	
133,079 c.m., copper (2/0).....	93.66	
105,534 c.m., copper (1/0).....	9.33	
66,373 c.m., copper (2).....	222.33	
52,634 c.m., copper (3).....	32.41	
41,742 c.m., copper (4).....	40.59	
26,250 c.m., copper (6).....	20.28	
Totals.....	884.85	

## NORTHERN ONTARIO SYSTEM—

## WOOD-POLE TELEPHONE LINE FOR

## SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors	
	Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932
6 x .0661 steel.....	60.00	60.00
1 x .0661 aluminum.....		
6 x .0661 aluminum.....	321.52	321.52
1 x .0661 steel.....		
Totals.....	381.52	381.52

a.c.s.r. = Aluminum cable, steel-reinforced.

WEIGHT OF POWER CONDUCTORS

Weight in pounds	Miles of single-circuit conductors	Miles of double-circuit conductors	Total miles single- and double-circuit conductors to Oct. 31, 1932
Total to Oct. 31, 1932	Total to Oct. 31, 1932	Total to Oct. 31, 1932	
16,184	1.31		1.31
131,040	19.50		19.50
139,815	55.82	34.23	90.05
6,555		1.83	1.83
198,840	31.22		31.22
15,702	3.11		3.11
235,225	49.71	12.20	61.91
43,972	12.27	2.60	14.87
27,033	13.53		13.53
8,497	6.76		6.76
822,863	193.23	50.86	244.09

ABITIBI DISTRICT  
HIGH-VOLTAGE TRANSMISSION LINES  
WEIGHT OF CONDUCTORS

Weight in pounds		Miles of single-circuit lines	Total mileage of single-circuit lines completed to Oct. 31, 1932
Completed Oct. 31, 1931 to Oct. 31, 1932	Total to Oct. 31, 1932	Completed Oct. 31, 1931 to Oct. 31, 1932	
23,640	23,640	30.00	30.00
61,732	61,732	160.76	160.76
85,372	85,372	190.76	190.76

## APPENDIX III

### DISTRIBUTION LINES AND SYSTEMS

#### Summaries of Data respecting Rural Distribution Systems, Distribution Feeders, Metering Stations, Distributing Stations and Distributing Systems constructed by the Hydro-Electric Power Commission.

Below is shown in tabular and descriptive form the work carried on under the supervision of the Distribution section of the Electrical Engineering department during the year ended October 31, 1932.

The work includes the construction of rural distribution systems, the installation of feeders to supply urban municipalities and the construction of metering equipments.

Work in connection with distribution systems was done by the Commission for certain municipalities, private companies, etc., at the request and at the expense of the parties concerned.

#### SUMMARY OF CONSTRUCTION IN RURAL POWER DISTRICTS

System	At October 31, 1931		At October 31, 1932	
	Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
NIAGARA SYSTEM.....	6,094.8	40,394	6,489.84	44,019
GEORGIAN BAY SYSTEM—				
Severn district.....	244.3	2,023	277.59	2,489
Eugenia district.....	160.4	862	181.18	928
Wasdells district.....	210.3	1,238	222.32	1,468
Muskoka district.....	55.3	320	92.50	532
Bala district.....	31.2	183	34.05	206
EASTERN ONTARIO SYSTEM—				
Central Ontario district.....	813.7	5,437	914.65	6,436
St. Lawrence district.....	356.0	2,147	380.00	2,270
Rideau district.....	64.8	385	75.18	439
Madawaska district.....	9.3	53	10.09	67
Ottawa district.....	165.1	988	176.64	1,047
THUNDER BAY SYSTEM.....			36.45	123
NORTHERN ONTARIO SYSTEM—				
Nipissing district.....	9.5	250	11.88	285
Manitoulin Island.....			16.00	
Totals.....	8,196.7	54,281	8,918.37	60,309

## DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS

Rural power district	Property number	At October 31, 1931		At October 31, 1932	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service

## NIAGARA SYSTEM

Acton.....	N5D1	7.7	25	8.00	26
Ailsa Craig.....	N4D7	6.0	18	6.00	19
Alvinston.....	N18D9	6.5	10	4.50	10
Amherstburg.....	N15D3	59.6	544	64.29	586
Aylmer.....	N11D2	97.1	561	110.10	614
Ayr.....	N12D4	22.7	82	23.01	85
Baden.....	N7D1	89.2	413	96.27	436
Beamsville.....	N1D4	135.9	916	155.08	1,452
Belle River.....	N15D2	43.4	358	43.83	368
Blenheim.....	N14D3	56.0	299	58.36	327
Bond Lake.....	N3D3	147.0	1,261	156.90	1,463
Bothwell.....	N14D10	35.5	125	37.58	136
Brampton.....	N13D2	51.6	185	51.62	182
Brant.....	N12D1	97.3	510	103.67	549
Brigden.....	N18D8	34.8	110	35.63	110
Burford.....	N12D2	47.7	257	48.87	264
Caledonia.....	N2D5	95.1	449	101.75	482
Chatham.....	N14D1	131.6	786	142.91	806
Chippawa.....	N1D7	20.6	127	25.73	174
Clinton.....	N8D11	65.6	359	66.33	377
Delaware.....	N4D3	120.8	634	125.82	656
Dorchester.....	N4D1	109.7	551	109.40	579
Dresden.....	N14D12	24.2	89	24.23	89
Drumbo.....	N12D5	52.0	247	54.58	268
Dundas.....	N2D1	92.3	642	107.01	735
Dunnville.....	N1D9	9.1	60	16.47	73
Dutton.....	N11D3	46.9	191	46.85	199
Elmira.....	N7D3	20.0	79	23.23	81
Elora.....	N5D4	40.6	273	44.88	270
Essex.....	N15D7	84.2	442	87.86	456
Exeter.....	N4D6	63.0	551	65.46	596
Forest.....	N18D6	38.6	134	41.02	146
Galt.....	N6D2	37.0	290	37.80	300
Georgetown.....	N5D2	49.1	239	55.33	276
Goderich.....	N8D2	36.5	172	40.40	184
Grantham.....	N1D2	51.1	502	60.78	769
Guelph.....	N5D3	87.1	537	87.46	534
Haldimand.....	N2D8	49.8	246	50.13	283
Harriston.....	N8D5	23.0	57	23.00	64
Harrow.....	N15D4	66.9	588	67.19	616
Ingersoll.....	N10D3	182.1	656	184.44	667
Jordan.....	N1D3	32.9	342	33.46	362
Keswick.....	N3D5	53.6	888	56.31	955
Kingsville.....	N15D5	127.2	1,305	131.54	1,349
Listowel.....	N8D8	49.2	555	76.39	346



## DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

Rural power district	Property number	At October 31, 1931		At October 31, 1932	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
NIAGARA SYSTEM—Concluded					
London.....	N4D2	184.2	1,938	190.49	2,012
Lucan.....	N4D5	33.0	117	33.68	122
Lynden.....	N2D2	51.0	239	54.23	253
Markham.....	N3D1	102.2	746	112.88	843
Merlin.....	N14D15	77.9	289	87.76	316
Milton.....	N13D3	45.9	365	64.28	340
Milverton.....	N8D9	36.0	162	40.17	178
Mitchell.....	N8D7	64.3	344	67.00	368
Newmarket.....	N3D4	55.1	316	60.95	345
Niagara.....	N1D1	46.1	290	48.28	308
Norwich.....	N10D1	90.5	417	106.70	474
Oil Springs.....	N18D3	14.9	96	20.81	116
Palmerston.....	N8D6	32.9	101	37.94	137
Petrolia.....	N18D5	14.5	57	14.78	57
Preston.....	N6D1	139.0	926	138.10	974
Ridgetown.....	N14D2	104.1	677	104.50	693
St. Marys.....	N9D1	111.0	428	114.80	447
St. Jacobs.....	N7D2	65.7	367	68.67	374
St. Thomas.....	N11D1	154.1	1,072	160.73	1,115
Saltfleet.....	N17D1	84.2	1,033	93.03	1,507
Sandwich.....	N15D1	125.7	2,145	127.29	2,055
Sarnia.....	N18D4	87.5	1,137	87.44	1,156
Scarboro.....	N3D2	76.2	584	80.06	669
Seaforth.....	N8D10	11.3	134	16.60	157
Simcoe.....	N12D6	64.1	314	67.30	377
Stamford.....	N1D6	12.6	289	12.37	292
Stratford.....	N8D4	35.3	226	37.00	222
Strathroy.....	N4D4	78.3	238	78.55	243
Streetsville.....	N13D1	96.0	386	102.75	452
Tavistock.....	N8D1	79.5	317	79.63	319
Thamesville.....	N14D11	62.9	251	68.06	275
Tilbury.....	N14D14	50.1	251	59.16	253
Tillsonburg.....	N10D4	108.4	553	110.04	571
Wallaceburg.....	N14D13	83.2	537	83.39	546
Walsingham.....	N12D7	67.0	359	78.58	433
Walton.....	N8D3	53.4	229	42.34	271
Waterdown.....	N2D3	36.0	364	67.40	869
Waterford.....	N12D3	64.4	257	69.75	304
Watford.....	N18D7	17.6	57	17.55	57
Welland.....	N1D5	264.5	2,534	273.60	2,585
Woodbridge.....	N16D1	188.1	974	194.31	981
Woodstock.....	N10D2	127.3	614	125.42	634

## DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

Rural power district	Property number	At October 31, 1931		At October 31, 1932	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
GEORGIAN BAY SYSTEM					
SEVERN DISTRICT					
Alliston.....	S32D1	23.3	133	23.57	145
Barrie.....	S4D1	51.3	402	60.04	560
Beeton.....	S33D1	0.3	1	1.80	5
Bradford.....	S37D1	22.2	72	27.07	88
Buckskin.....	S24D1	0.9	15	0.95	15
Cookstown.....	S35D1	0.5	2	0.50	2
Creemore.....	S10D2	19.3	64	30.00	134
Elmvale.....	S7D1	25.5	151	25.50	158
Hawkestone.....	S9D1	26.0	110	26.80	152
Innisfil.....	S31D1	27.7	355	27.97	432
Medonte.....	S18D1	8.3	50	9.18	51
Midland.....	S1D1	10.1	39	12.13	43
Nottawasaga.....	S5D1	7.8	90	7.89	92
Thornton.....	S36D1	8.0	30	8.00	30
Wasaga Beach.....	S10D1	13.1	509	16.19	582
EUGENIA DISTRICT					
Arthur.....	E13D2	2.4	9	2.40	10
Bruce.....	E19D1	39.1	161	50.99	177
Chatsworth.....	E3D1	0.0	22	0.00	22
Flesherton.....	E1D1	1.6	32	2.60	39
Holstein.....	E7D1	0.5	6	0.50	8
Lucknow.....	E24D1	0.1	2	0.11	2
Markdale.....	E1D2	13.6	60	13.00	66
Meaford.....	E14D1	0.8	2	1.11	6
Neustadt.....	E8D1	0.5	4	0.50	4
Orangeville.....	E12D1	20.2	76	22.70	93
Owen Sound.....	E2D1	1.3	12	1.87	18
Ripley.....	E24D2	4.0	11	4.07	12
Shelburne.....	E10D1	6.9	26	12.51	47
Sauble.....	E46D1	10.0	60	9.37	41
Tara.....	E15D1	23.5	112	23.50	110
Wroxeter.....	E22D1	35.9	267	35.95	273
WASDELLS DISTRICT					
Beaverton.....	W2D1	6.1	34	14.01	184
Cannington No. 1.....	W3D1	4.0	24	4.05	24
Cannington No. 2.....	W3D2	5.6	22	5.60	22
Georgina.....	W2D2	15.5	107	11.56	121
Mariposa.....	W9D1	46.9	310	47.14	312
Port Perry.....	W12D1	48.5	314	48.66	344
Sparrow Lake.....	W1D1	27.4	203	30.15	235
Uxbridge.....	W11D1	60.3	224	62.15	226
MUSKOKA DISTRICT					
Beaumaris.....	M7D1	22.3	173	22.46	207
Baysville.....	M10D1	.....	.....	31.25	129
Gravenhurst.....	M4D1	.....	.....	2.30	13
Huntsville.....	M2D1	15.0	63	18.70	77
Utterson.....	M8D1	18.0	84	17.79	106
BALA DISTRICT					
Bala.....	GB13D1	31.2	183	34.05	206

## DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

Rural power district	Property number	At October 31, 1931		At October 31, 1932	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
EASTERN ONTARIO SYSTEM					
CENTRAL ONTARIO DISTRICT					
Belleville.....	C38D1	80.7	626	81.81	657
Bowmanville.....	C23D1	28.7	117	28.98	129
Brighton.....	C6D1	9.2	42	10.15	63
Campbellford.....	C11D1	22.0	84	21.50	80
Cobourg.....	C13D1	67.4	307	90.29	453
Colborne.....	C7D1	23.4	130	31.07	151
Fenelon Falls.....	C30D1	18.5	113	18.45	125
Kingston.....	C44D1	91.3	563	110.90	650
Lakefield.....	C18D1	16.7	59	23.35	88
Lindsay.....	C29D1	4.9	23	13.65	71
Millbrook.....	C25D1	16.1	71	19.08	100
Napanee.....	C43D1	79.6	403	107.72	510
Newcastle.....	C22D1	25.9	115	26.35	121
Norwood.....	C31D1	7.4	52	7.70	59
Oshawa.....	C24D1	86.0	826	100.74	1,484
Omeme.....	C26D1	3.0	2	3.00	2
Peterborough.....	C20D1	57.8	947	60.65	998
Stirling.....	C35D1	26.7	105	27.43	109
Trenton.....	C3D1	41.4	193	41.55	202
Warkworth.....	C49D1	0.4	6	0.40	6
Wellington.....	C45D1	88.6	363	89.88	378
ST. LAWRENCE DISTRICT					
Alexandria.....	L15D1	16.9	78	20.33	105
Brockville.....	L3D1	87.6	598	92.56	629
Chesterville.....	L5D1	46.5	318	46.87	331
Iroquois.....	L9D1	80.5	397	90.17	411
Martintown.....	L13D1	20.0	147	20.94	138
Maxville.....	L14D2	58.3	349	59.22	377
Prescott.....	L2D1	34.8	205	37.17	212
Williamsburg.....	L7D1	11.4	55	12.74	67
RIDEAU DISTRICT					
Carleton Place.....	H5D1	.....	.....	0.50	4
Perth.....	H2D1	8.6	38	14.82	56
Smiths Falls.....	H3D1	51.3	314	54.43	337
Kemptville.....	H9D1	4.9	33	5.43	42
MADAWASKA DISTRICT					
Arnprior.....	QM10D1	4.2	44	4.97	58
Renfrew.....	QM16D1	5.1	9	5.12	9
OTTAWA DISTRICT					
Nepean.....	T1D1	165.1	988	176.64	1,047

**DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Concluded**

Rural power district	Property number	At October 31, 1931		At October 31, 1932	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service

**NORTHERN ONTARIO SYSTEM**

NIPISSING DISTRICT					
North Bay.....	Z4D1	8.5	250	8.56	278
Powassan.....	Z8D1	1.0	.....	3.32	7
Manitoulin.....	FR2D1	.....	.....	16.00	.....

**DISTRIBUTION FEEDER CONSTRUCTION**

During the year ending October 31, 1932, the following work was carried on in connection with distribution feeders.

**N 342 x 15—Bond Lake Distribution Station to Kettleby**

This line has been taken down except one half mile which was previously transferred to Bond Lake Rural Power District.

**N 740 x 9—Waterloo Rural Station to Bridgeport**

A section of rural line 2.9 miles in length was transferred from Preston Rural Power District to form this line. 1.25 miles was converted to 3 phase from single phase. Completed November 1, 1931.

**N 1036 x 7—Norwich Distribution Station to Burgessville**

Crossarms were replaced and slack pulled up on this line. The work was completed October 14, 1932.

**N 1370 x 7—W. D. Reid & Son Junction to Toronto Milling Co.**

This line has been transferred to Streetsville Rural Power District as of October 1, 1932.

**N 1432 x 18—Tilbury Distributing Station to M.C.R.**

This line was transferred to Tilbury Rural Power District as of March 1, 1932.

**E 4 x 402—Chesley Distributing Station to Paisley**

The capital in this feeder was transferred to 22,000 volt Transmission Line—E 69 x 19 as of November 1, 1931.

**E 24 x 2403—Holyrood Distributing Station to Ripley**

Air break switch was installed at limits of Ripley. The work was completed August 15, 1932.

**E 48 x 4803—Walkerton Rural Station to Mildmay**

The portion of this line from Otter Creek to Mildmay was purchased and the whole line rebuilt. The line is 5.32 miles long. Placed in service October 17, 1932.

**M 462 x 2—Muskoka Beach Junction to Muskoka Beach Co.**

This line was transferred to Gravenhurst Rural Power District as of November 1, 1931.

**C 45 x 4502—Wellington Distributing Station to Bloomfield**

A neutral conductor was added, the work was completed February 24, 1932.

**C 49 x 4901—Warkworth Distributing Station to Warkworth**

This line was reconstructed and the work was completed December 9, 1931.



## STATIONS CONSTRUCTED

Station	Property number	Date work was completed	Transforming or measuring power for
Wheatley M.E..... <i>a</i>	N1549	Sept. 9, 1932	Wheatley.
Bradford R.M.E.....	S37D31	Nov. 28, 1931	Bradford R.P.D.
Bruce R.M.E.....	E19D31	May 21, 1932	Bruce R.P.D.
Mildmay M.E.....	E4833	Oct. 7, 1932	Mildmay.
Beaverton R.M.E.....	W2D31	July 30, 1932	Beaverton R.P.D.
Port Carling D.S..... <i>b</i>	GB1332	June 30, 1932	Port Carling.
Colborne R.S.....	C7D31	April 7, 1932	Colborne R.P.D.
Lakefield R.M.E.....	C18D31	May 2, 1932	Lakefield R.P.D.
Westport M.E.....	H1231	Nov. 4, 1931	Westport
Perth R.M.E.....	H2D31	Nov. 20, 1931	Perth R.P.D.
Port Arthur R.M.E.....	P2D31	Jan. 25, 1932	Port Arthur R.P.D.

*a* Demand meter replaced with Graphic Watthour meter.

*b* Transformer capacity increased and meters added.

The following work was done for Municipalities:

Municipality	Date work completed	Nature of work
Alliston.....	Nov. 11, 1932	Reconstruct and extend local system.
Bradford.....	Jan. 22, 1932	Recondition and extend local system.
Westport.....	Nov. 14, 1931	Construct Distribution System.
Grand Valley.....	Dec. 15, 1931	Recondition local system.
Walkerton.....	Jan. 18, 1932	Reconstruct local system.
Bala.....	June 30, 1932	Extend local system.
Port Carling.....	June 30, 1932	Extend local system.

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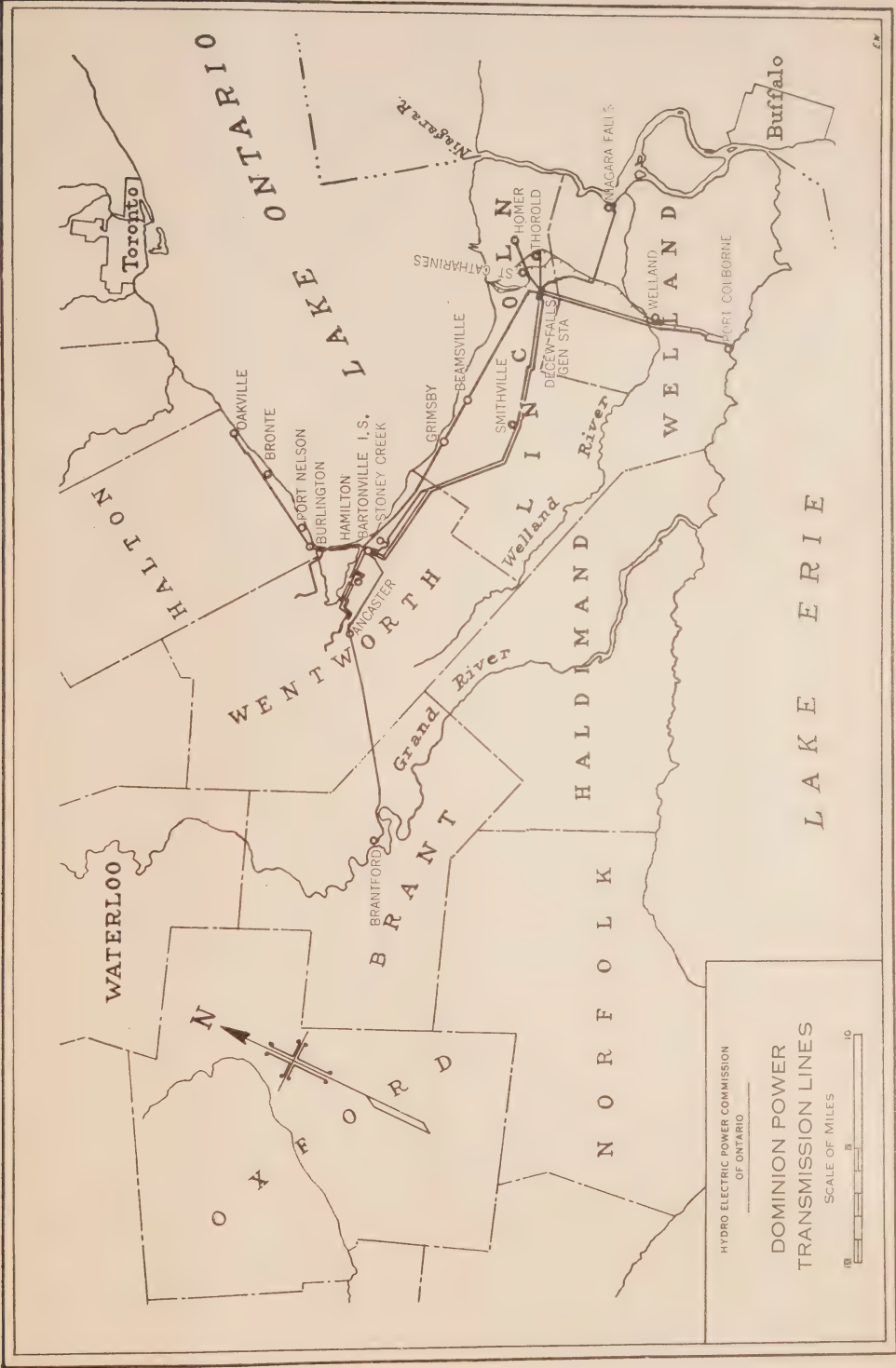
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